WATTS NEWS

The Best of Amateur Radio

OARC e-Magazine

www.OgdenArc.org

DECEMBER 2020

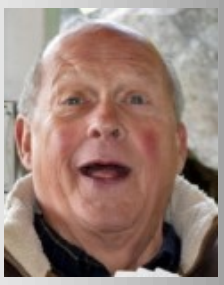
Next Club Meeting/Activity

Inside...

Dave Mamanakis KD7GR
President

Justin Hall KB7LAK
Vice President

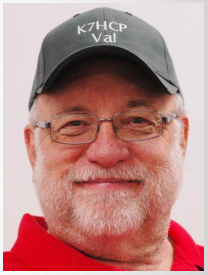
Barbara Siddle KB7FWW
Secretary



J. Siddle KG7CJN
Treasurer

Mike Wilde KJ7HEX
Program Director

Todd Shobe KW7TES
Activity Director



Val Campbell K7HCP
Webmaster/NL Editor

PREVIOUS CLUB MEETING/ACTIVITY

November Activity

3rd Saturday 21 November 2020

9:00 AM

Zoom Meeting

Managing personal pages on QRZ.com

NEXT CLUB MEETING/ACTIVITY

OARC

December Activity

Keep clicking...

PREVIOUS MEETINGS PICS

Photos by … photographers have been quarantined

“Previous Meeting - pictures” ...

Photos located on the club web site home page.

OARC COMING EVENTS

Next Activity

One more click...

Instructors Needed for the OARC

January 2021 'Tech' Class

This class will be held via Zoom so it is Covid safe and no travel required.

(Please contact Justin Hall KB7LAK asap via the club email address w7su@arrl.net)

Next VE Test Session

1st Wednesday 03 February 2021 @ 6:00 PM

CLUB NEWS

OARC

December Activity

OARC Meeting/Activity - December

3rd Saturday 19 December 2020

9:00 AM

Simulcast Meeting:

Zoom Meeting ... plus

On-the-Air (448.600 repeater) & YouTube (via internet)

$500 in $cash$ door prizes (members only)

Stay tuned to the Club Website and the Ham & Eggs Net.

Dave's Rag Chew

Dave Mamanakis KD7GR

First Off:

I hope you all had a wonderful Holiday!

Thanksgiving is one of my favorite holidays! This year was rough, however, being separated from my friends and family groups that normally have Thanksgiving together…
But, we did have a small group! And we had a smoked turkey, with all the great trimmings! Things will improve! And when they do, we will make up for lost time! Parties and get-togethers!

For December, we WILL have a club meeting! On the 3rd Saturday, 9am! We will be holding the Club Meeting on BOTH Zoom AND Over the Air! Yes, it will be weird! But we are going to try to broaden our base, especially for the Holiday "party on the air"…
Well, maybe not a party, but we will be holding a drawing for ALL paid members! We have several prizes that we'll be drawing for… So, PLEASE, JOIN US!

Ok, now for something I've been looking into…

QSO, QSL, QRZ
These 3 q-codes confuse me… So I thought I would say something about them, just to get it more straight in my mind!

A **QSO** is a "Radio Contact". It's real meaning is, "I can Communicate with" or "Can you communicate with".
You will mostly hear it in this context:
"I had a QSO with a guy on the east coast"

Continued ...

A **QSL** is to "acknowledge receipt" of a transmission. It's real meaning is, "I am acknowledging receipt" or "Can you acknowledge receipt".

You will mostly hear it in this context:
"Here is something really important over the radio, QSL?"
A QSL Card is a physical receipt of acknowledgement… and they are cool and fun to collect. This is where a website like QRZ.com comes in. If you keep your logs, you can send off a QSL card to the other person, and they may send you one back!
Stick them on the wall, in a scrap book… The Club has quite a few QSL Cards from our activities on the air as a club!

And finally, **QRZ**. Not the same as QRZ.com, but once I tell you what QRZ means, it'll all make sense…
QRZ is, "You are being called by" or "Who is calling me"…

When you go to QRZ.com and log in, you can search for other Operators' Call Signs! And if you fill out your page, then it is you, basically, "QRZ!" And if you look for someone else, "QRZ?"

I like Q-Codes. They are interesting and have a very interesting history!
They were developed in 1909 by the British Government. They were soon used internationally as a quick shorthand for radio telegraph.

Our last Club Meeting we talked about QRZ.com. It is very useful! People from all over the world use it to connect with people they talk to over the air!
I'm still working on mine… but if you haven't signed up, I highly recommend it!

Thank you all for being members of the Club! We are in the Home Stretch of 2020, and we'll soon be into 2021!

Be safe and healthy!

We'll see you later this month!

--Dave (KD7GR)

CLUB NEWS

HAM and EGGS Net

Tuesday Evenings at 6:30 PM Mountain Time

Mt Ogden 70 cm repeater 448.600 MHz (- offset, 123.0 PL Tone)

New, Intermediate & Old Timers. Elmering, Education, General Ham Discussion and Rag Chew.

New hams encouraged to check in. Get connected, learn new things and ask questions.

Questions: Larry Griffin AD7GL, ad7gl@arrl.net

Stan Sjol W0KP, stansjol@xmission.com

CLUB NEWS

10 Meter Net

Thursday Evenings at 0200 UTC (7:00 PM MT)

10 Meters HF - 28.385 MHz SSB (USB)

Purpose is to promote activity on the 10 meter band (especially during low sunspot activity).

To give technician class operators an opportunity to operate phone, and to provide a venue for conversation and experimentation with antenna and ground wave propagation.

Questions and Net Control: Gene WB7RLX, ee_morgan@outlook.com

Club News

Ogden Amateur Radio Club

Centennial 2021

QSL Card Contest

The Ogden Amateur Radio Club Centennial Committee would like to announce a QSL card contest. The Centennial committee will be scheduling a special event station to celebrate the 100-year mark for the OARC. Tentative date May 15, 2021. The final card design will be printed and mailed to all over the air radio contacts who request a card.

This contest is open to all club members. Contest will run from September 1, 2020 until April 15, 2021. Voting for the winning design will be held online to determine the final card design. In the event of a tie, the final winner will be determined by the board.

Original artwork, photographs, and drawings are all welcome. Desired theme should be radio related, and emphasize the Centennial milestone of the club.

Scoring will be based on: Originality. Centennial Theme. Aesthetic quality.

Grand Prize

$100

All entries will become the sole property of the Ogden Amateur Radio Club.

Submit all entries electronically to:

w7su@arrl.net

CLUB NEWS

OARC ‘s new 2021 Centennial Club Logo

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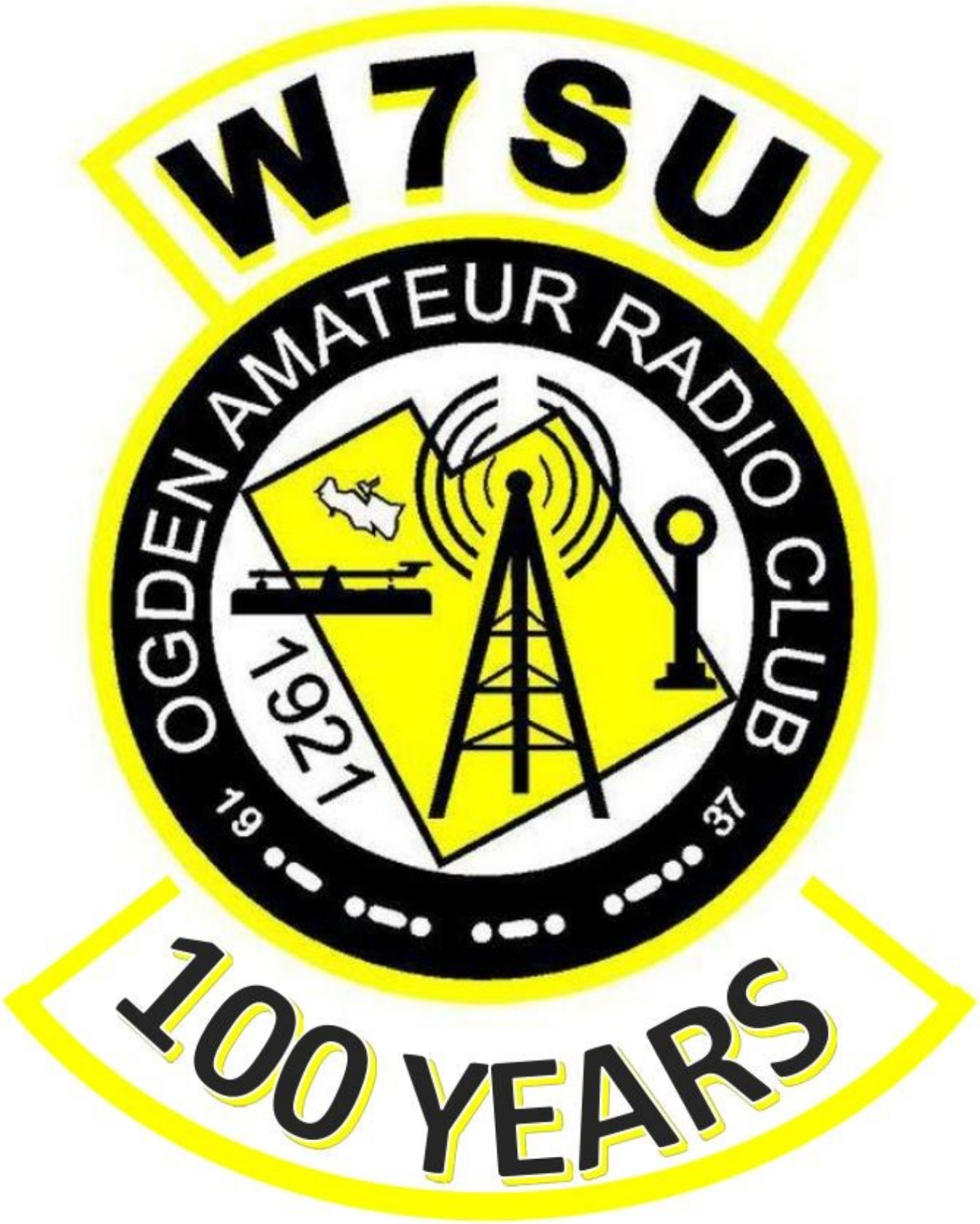


CLUB NEWS

OARC ‘s new 2021 Centennial Club Patch

CLUB NEWS

STILL WANTED

Ham Shack Photos

We want you to submit pictures of your ham shack to us for future publication in the club newsletter. Submit home ham shack, mobile ham shack, handheld ham shack. Antennas too.

I will keep the submissions anonymous if you prefer.

My thinking is that I would publish one-set of ham shack pictures each month with the idea that all viewers could privately try to guess whose ham shack was featured that month.

I think it will be interesting to see the wide variety of equipment that each of us has chosen to populate our hobby work space with. This could be invaluable to each of us as we make future decisions about equipment upgrades.

Thank you in advance. 73, Val K7HCP

Submit to

k7hcp@arrl.net or w7su@arrl.net -Or- 801.389.0690

So send me your Ham Shack Photos soon!

CLUB NEWS

Ham Shack Photos

Last month the unidentified Ham Shack Photo was …

N7SHA

Alan Parks

CLUB NEWS

Ham Shack Photos

The next in the series of unidentified ham shacks is shown below.

Do you know whose ham shack this is?

OARC Web Site (repeat posting)

www.OgdenARC.org

Runs autonomously with no physical attachment to anything other than it's power source. Connectivity to the outside world is via WiFi.

Hardware: Raspberry Pi 4b, 1.5 GHz Processor , 64 Bit Quad Core, 4 Gb RAM

w/ WiFi, Ethernet, Blue Tooth, USB x4, HDMI x2, Stereo

Software: OS—Linux (Raspbian—Buster)

Web/eMail Server—Nginx & Postfix, w/ HTTP, PHP & FTP

Web site: hosted at K7HCP.com

Website Content: (as of 2018)

1.09 GB - Programs & Data

95 - Folders

3241 - Files

109 - Html (web pages)

2644 - JPG (pictures)

323 - PDF (documents)

165 - other files

CLUB NEWS

OARC Members,

Yahoo is bringing to an end Yahoo Groups so we will no longer have our OARC Yahoo Group. Not to worry, Google has a Google Groups which works almost exactly the same as Yahoo Group.

OARC has recently started sending your club communications directly to your email address that is the email address on record of your membership so OARC no longer will be using Yahoo or Google Groups method of distribution.

Sign up and use the OARC Google Group to Send/Receive OARC member communications between your fellow members.

Click on the Google Groups ICON at the bottom of the OARC website home page and sign up.

NOTE: Stay Tuned for this feature.
We are still working to make this happen.

CLUB NEWS

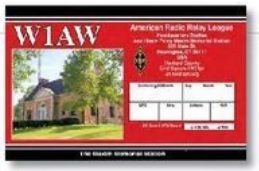
Phoenix the DX Dog visits OARC's Golden Spike Special Event Station W7G on 10 May 2019

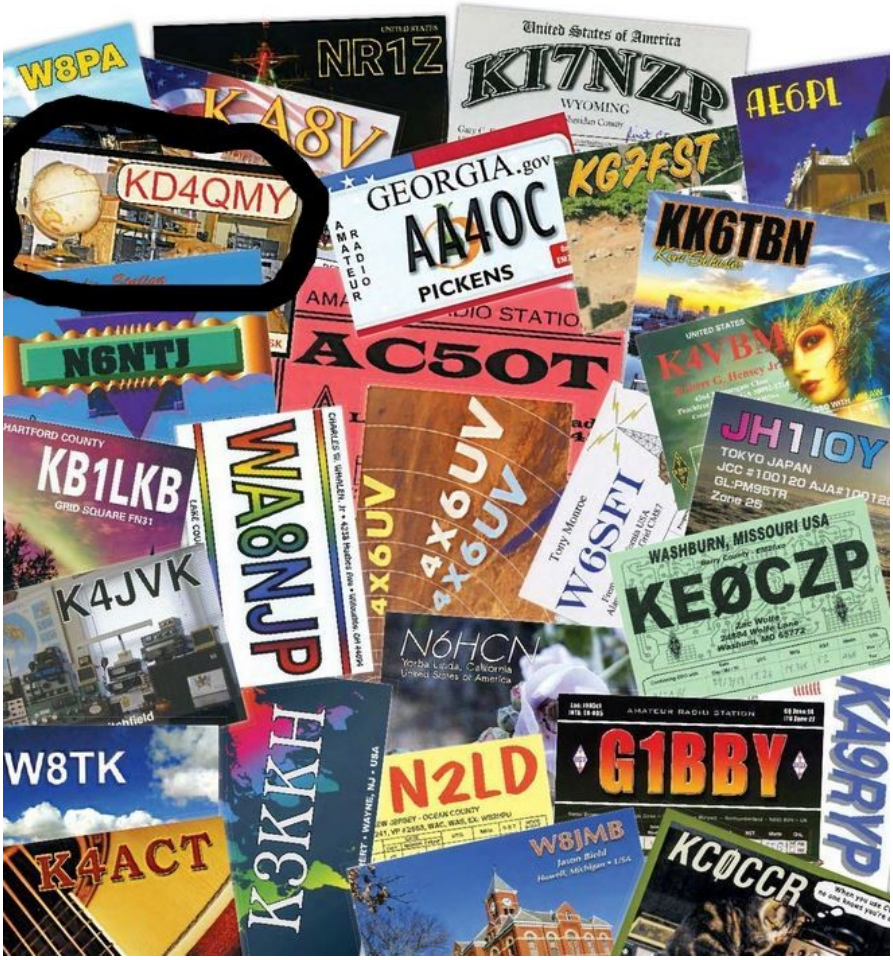
Read the QST "Letter from our Members" article on the right then scroll to the next page.

QST—October 2020 p.28

W1AW's QSL File

Every month, W1AW receives hundreds of QSL cards from hams all over the world, confirming contact with the Hiram Percy Maxim Memorial Station at ARRL Headquarters. Maybe you'll recognize an on-air friend — or even yourself — among these recent cards.





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Correspondence

Letters from

Phoenix the DX Dog

I was reading the October issue of *QST* and I always enjoy looking through the QSL cards in "W1AW's QSL File." I was surprised, however, when I saw my own card. My QSL card is in memory of Phoenix, my Golden Retriever, who passed away in 2016. Phoenix was always in the shack with me as I traveled the world via amateur radio.

In early 2004, Phoenix reached up to the radio table and began "listening" to all the sounds of amateur radio. After that, I decided to use a photo of Phoenix on my QSL card. The original Phoenix QSL card featured the same picture as it does today, along with the words "Phoenix listens for a rare DX call." As I exchanged QSL cards from around the world, he became known as "Phoenix the DX Dog." He often received his own "QSL" cards with the RS(T) reported as "woof x woof."

After he passed away, I changed the words on the QSL card to "In Memory of Phoenix the DX Dog 2003 – 2016SK," which is the card featured in the October issue. The Quarter Century Wireless Association also published an article about Phoenix and me in their April 2018 newsletter, *The QCWA Journal*.

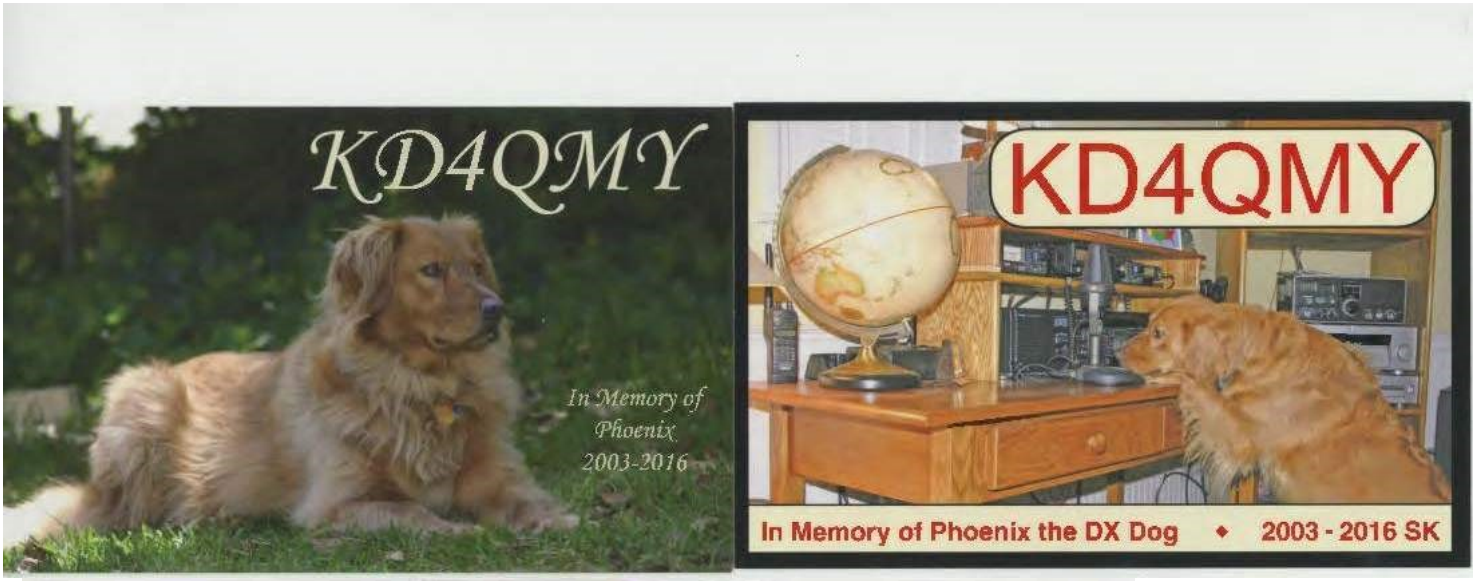
Phoenix may be gone, but his memory lives on. Thank you again for selecting my QSL card for publication in the October issue of *QST*.

George R. Joyner, KD4QMY
Macon, Georgia
Life Member

Phoenix the DX Dog visits OARC's Golden Spike Special Event Station W7G on 10 May 2019

QSL cards below from the OARC - W7G.org website

Check it out: http://w7g.org >>> photo gallery 2019



The photograph above was on Dec. 1, 2016

QSO In Memory of Phoenix 2003 – 2016

My beloved Golden Retriever, Phoenix, passed away on

December 19, 2016 at the age of 13 ½.
He was always in the radio room with me as I traveled the world with amateur radio. He will always be remembered but not forgotten.
The photograph on the QSL card at the radio was taken in 2004.
And the photograph of Phoenix lying in the grass was taken in 2007.
73 – KD4QMY

CLUB NEWS

ARRL FIELD DAY 2020 RESULTS

ARRL publishes the June Field Day results in the December issue of QST.

After much searching with a magnifier glass I was able to confirm our score.

It appears that Tim Samuelson KE7DOA was a very busy ham working from home on field day. Way to go Tim. Thank you for your contribution.

club	call	qso	clas	oprs	pts	sect
Ogden ARC	W7SU	227	2A	26	724	UT
	KE7DOA	93	1E	1	522	UT
Total (2 stations)		320		27	1246	UT
Total Points					1246	

Class 2A = 2 transmitters emergency power

Class 1E = home station emergency power

CLUB NEWS

Previous Field Day Comparisons

Year	Location	Category	Section	Power Class	Participants (*)	CW QSOs	Digital QSOs	Phone QSOs	Total QSOs	Total Score
2020	West Weber	2A	UT	100 w	26	0	0	227	227	724
2020	KE7DOA	1E	UT	100 w	1	0	0	93	93	522
2020	OARC		UT	100 w	27	0	0	320	320	1246
2019	Marriott	2A	UT	100 w	58	56	0	231	287	1676
2018	Marriott	2A	UT	100 w	20	66	0	339	405	1312
2017	Marriott	2A	UT	100 w	18	42	45	120	207	758
2016	So Ogden	2A	UT	100 w	16	101	0	209	310	1472
2015	Marriott	2A	UT	100 w	43	71	0	264	335	1422
2014	Marriott	2A	UT	100 w	45	54	0	220	274	1006
2013	Marriott	2A	UT	100 w	29	131	0	300	431	1874
2012	Marriott	2A	UT	100 w	25	0	0	395	395	1870
2011	Uintah Park	2A	UT	100 w	40	75	5	178	258	1656
2010	W0KP Ranch	2A	UT	100 w	44	61	7	299	367	1120
2009	W0KP Ranch	2A	UT	100 w	10+	0	0	610	610	1470
2008	W0KP Ranch	2A	UT	100 w	32	0	0	443	443	1456
2007	Eden	2A	UT	100 w	12+	0	0	427	427	1144
2006	Eden	2A	UT	100 w	12+	123	0	478	601	1798
2005	Eden	2A	UT	100 w		6	0	282	288	588

Note: (*) Some years "Participants" = numbers of operators/loggers.
Other years "Participants" = number of attendies (excluding dinner time).

CLUB NEWS

NEWS YOU CAN USE

OARC Website width considerations …

When viewing the OARC website homepage on a small display screen such a laptop and or a tablet, you may have to use the browser scroll bar at the bottom of the browser screen to shift the display to the right to see the right side of the website.

With the larger displays found attached to most desktop/tower machines this is not necessary because they usually have a higher resolution and can display the entire width of the OARC website all at once.

Solution:

Click on your browsers “Options” button and then choose the “ZOOM” value that best suits your needs.

The ’Options’ button for most browsers is found in the far upper far right corner of the browsers display window. It may be 3 small horizontal bars or 3 small dots.

CLUB NEWS

OARC ‘Kudos’ go out to Kent Gardner WA7AHY who faithfully supports the Veteran’s at the George E. Wahlen Veterans Home each month. He has been doing this each month for as long as I can remember.

Kent once told me …

My wife's father, an Air Force veteran was there. That is where I took an interest. I met some really nice guys there that were amateur radio operators, Navy communications and pilots that were interested in radio and Morse Code. There were some hams there who wanted to get together, so we did. I started by meeting in their Library on the 3rd Tuesday of each month and we would discuss whatever they wanted to. I started to bring in some of my submissions to the club newsletter as handouts. The Ogden Amateur Radio Club (OARC) had recorded some meetings on U-tube and we watched some of them. Otherwise we just talked. When the Covid-19 pandemic hit, I was not allowed in so kept up the monthly newsletter idea by mail.

This is Kent’s most recent newsletter (November 2020) to the Veterans.

Ham Radio Newsletter

George E. Wahlen Veteran’s Home

Volume 11 for the year 2020

November Issue

By

Kent Gardner

Radio Station WA7AHY

Continued ...

Hi all,

The recent hurricane/wind storm caused damage to many ham radio antennas in this area. There was an article in the November 2020 issue of *Watts News.* This is the newsletter from the Ogden Amateur Radio Club. The November issue can be read in it's entirety by logging onto the club website ogdenarc.org.

I have cut and pasted and edited most of the article as follows:

The following picture is of The Ogden Radio Club's Little Mountain repeater site (drive out West on 12th street).

Repeater engineers, Scott Willis, KD7EKO, and Mike Fullmer, KZ7O, were told that it seemed like the 448.575 MHz repeater wasn't receiving as well as it was before the wind storm.

Scott wrote:

Mike and I went out to Little Mountain and found that the observation was absolutely correct. The temporary mast that Mike and I installed for the "receive antenna" had broken. You can see the antenna laying down and touching the ground in the picture. Mike removed the mast and it lowered the receive antenna a little, but it's still working perfectly even with the lowered position on the tower. Note the solar panels and other antennas. The club also has a two-meter (144 MHz) repeater in the same building.

The other damage from the wind was that the tower at a club member's place got bent in the wind. It had guy ropes on the tower and the wind probably would not have bent the tower like this, but a large branch broke off of a tree and fell on one of the guy ropes and pulled the tower in that direction and bent the aluminum tower. So, club members Stan, Gene, Justin, and myself went over there and I took my 40-foot boom lift to assist in lowering the tower. Once it was lowered, we had to cut off about 6 feet of the top section of the tower that was bent. Later, on a different day or multiple days, Stan continued more by himself in the rest of the repairs needed on the tower.

Have a great Thanksgiving.

TNX Kent Gardner, WA7AHY

CLUB NEWS

This just In

New Stepp Urban Beam Antenna Goes up at KG7LIG, Andrea Howard.

The unidentified person working on the antenna is none other than Stan W0KP. We put this antenna up yesterday. I always love it when a new antenna goes up. It's not officially on the air yet. Stan has a few more things yet to do.

Eugene Morgan WB7RLX

More ...

CLUB NEWS

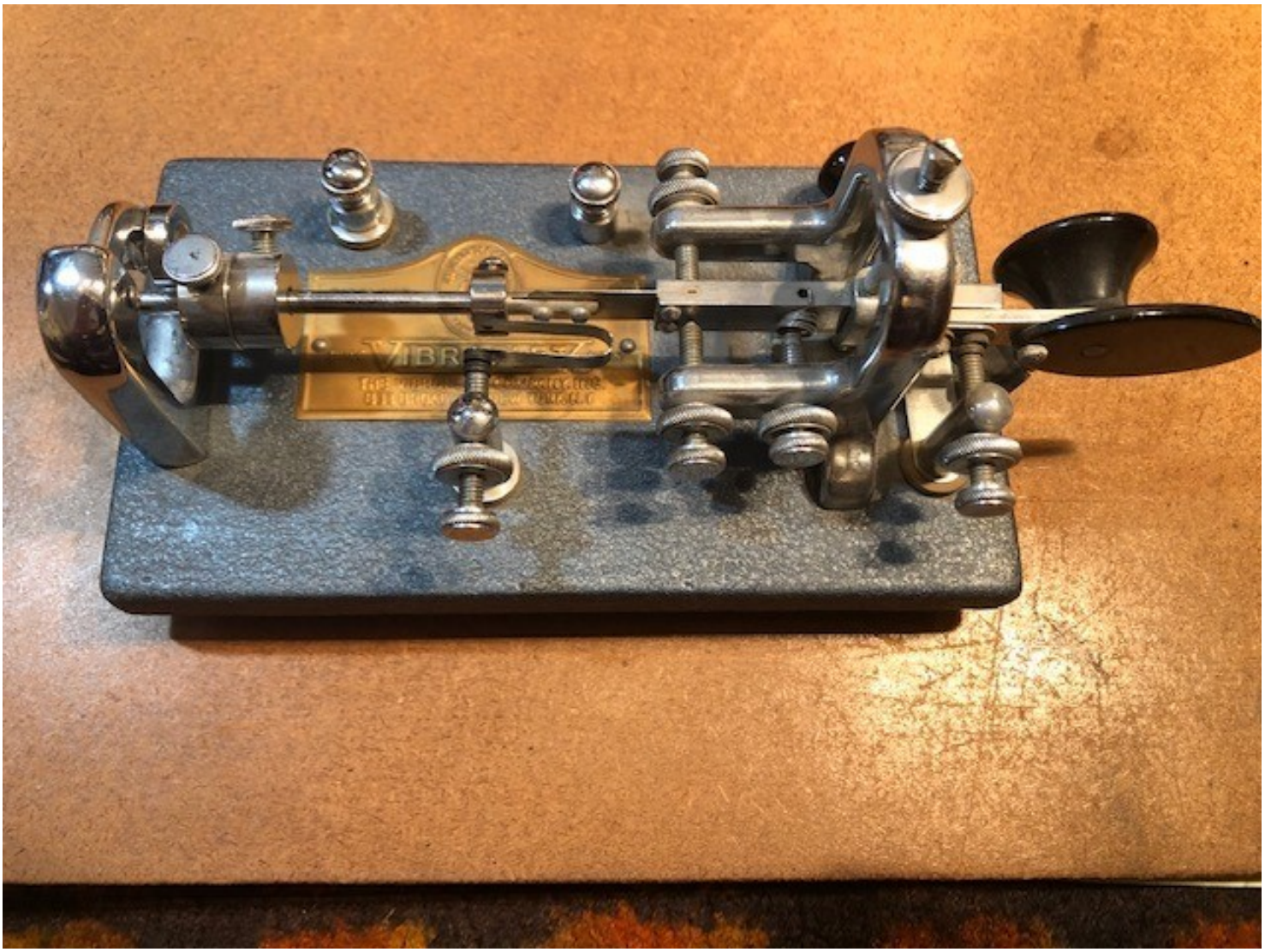
For the CW nostalgia buffs.

Here is a picture of my Vibroplex keyer.

This is the “Blue Racer” with L damper, serial number 203722.

It is in excellent condition, manufactured in 1958, 62 years old.

‘73’ K7PRH Reed Kotter



FEATURE ARTICLE

Justin Hall KB7LAK

So I've been a ham for 30 years now- growing up in Boise, Idaho. At age 16, I was licensed as a Novice (they made me learn Morse Code and I hated it!) in 1990, and upgraded to Technician shortly thereafter. If you know anything about sunspot cycles, 1990 was a really good year for HF. And I was more than content in my little slice of 10 meters from 28.3 to 28.5MHz. I was working the world on my 10m dipole and Heathkit HW-101. I would impress my friends with my "car phone" (autopatch) with my Yaesu FT-727R- a tank of a handheld, and I ran it with a mag mount antenna in the Ford Tempo. I recall taking my radio to school on 7 December and hearing the guys tell stories about Pearl Harbor - those were some amazing people. My own service in the US Air Force was a 20 year tropical vacation compared to what the WWII/Korea/Vietnam guys/gals endured! But it was a lot of fun operating 'aeronautical mobile' in the RC-135...instant pileup.

Life happened after that, I hung out on the 145.25 WA7MXN (now K3ZFF) repeater aka the "ghetto of two meters" until I moved out of the area and my radios were relegated to the garage as I was working on getting my degree, and worked a lot in my early 20s. In short, I didn't have time. But I drove a lot, and when I had time, I'd get on 2m here and there. I thought about getting a Radio Shack 10m rig, but the conditions were terrible and I didn't have a lot of extra money for that. Once I was delivering a pizza and had a fellow ham call a customer and tell him I was outside and couldn't get in the locked front door. In 1995, the only people that had cel phones were doctors, lawyers and drug dealers.

I upgraded to General in 2001 (Air Force Electronic Warfare Officer school made it a lot easier- radar and radio are pretty similar) and it was time to get that Heathkit dusted off and back on the air. My neighbor was an Extra and knew how to clean/tune up the radio and did it for and also gave me a Kenwood TS-130, but it was really quirky- the frequency would jump around. I gave it away and bought a TS-440. I used that as an expatriot ham in Seoul, Korea. Most of the stations I worked there were Chinese, Japanese, and Pilipino. I built a huge wire antenna dipole and it was interesting. I bought an Opek multi-band HF mobile antenna, and it worked really well (until the kid drove under a tree with it and it quit working after that!) on a lot of bands with an auto-tuner. It was fun while it lasted.

When I moved back to the States, I had a killer commute to and from Pensacola, Florida. 10m was heating back up or cooling down, and I found with my new FT-857, I could get a lot of coverage on 10m when I was on the "3 mile bridge". Speed limit was 45 and everyone went 60, but I went the speed limit because only on the bridge, I could work the entire world on 10m.

I wanted to get on HF during my trips up to Idaho, and 10m was still kind of dead, with my converted CB antenna. Enter the 102 inch whip. KD7EKO gifted me a nice element he'd purchased back when Radio Shack was a thing and I'd tried mounting it in the truck bed, but it didn't work and I'd drilled enough holes in the truck to upset Mama about the new truck with new holes. Scott graciously welded a nice steel bar onto it and ran the wires, so it looks like the truck came that way! Checking into the 10m net on Skyline, I can hear everyone. And I'm looking forward to running HF mobile on all the upcoming road trips to Nebraska next year and all the times up to Lava Hot Springs to go camping on the lot where we'll have a cabin some day.

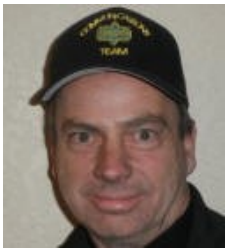
I'd write more, but 15m is open and my 102 inch whip is in need of making some signals.

73, Justin Hall KB7LAK

Pictures follow ...


FX4
OFF ROAD

FEATURE ARTICLE



Our friend Jared (W7FMJ)

By Scott Willis KD7EKO

For those who listen to the 448.600 repeater, you've probably got to know Jared Harper, W7FMJ over the last year or so. He's a great friend to chat with for a lot of us on the radio, he's got so much knowledge in so many different areas of interest for HAM radio operators. Jared met Alan Parks, N7SHA, on 11 meter radios about 30 years ago and Alan was at the time teaching a HAM radio class at Weber State. Jared took the class from Alan at Weber State 30 years ago and got his HAM license. Over the years he faded away a little on using the radio but always kept the radio for the future. One thing that a lot of people don't know about Jared is what got him back into using the radio again. In 2007, Jared was riding his motorcycle in Ogden Canyon and someone was coming straight at Jared in Jared's lane while going around a blind corner and the accident caused some major injuries to Jared, his tibia was crushed, toes amputated, etc. he was hospitalized for 2 years, bone infections, etc. During that time it was determined that Jared was allergic to certain anti-biotic treatments and that caused even more complications.

Later on, about 5 years ago, Jared ended up having a kidney failure issue and he went into a coma for 6 days and was on dialysis during that period also, Jared had mentioned to the doctor that he had learned from the 2007 incident that he was allergic to certain antibiotics and the doctor said that they would "monitor it closely", but it wasn't monitored as close as it should have been and it ended up creating a toxic situation inside of Jared, similar to having battery acid in your blood, and it shut down Jared's brain for a period of time. As Jared began to pull out of it, his speech was completely jumbled and he wasn't making any sense to anyone trying to communicate with him. He was constantly saying completely different words than he was thinking. He ended up having to get a speech therapist to help him recover, and that was a long road. The female speech therapist had asked about what friends Jared had to talk to, he responded that he lives alone and doesn't talk to people often. She decided to check in on Jared every 6 months and give him some speech tests to check on his progress. He continued to improve a little at a time.

A few years later, she had asked Jared if he could do something to talk more often to help him improve even more and he said that he lives alone and doesn't talk to people much but he mentioned to her that he has a HAM radio license that he hasn't used in years and she said "PERFECT!", why don't you talk on the HAM radio and let's see if it will help you continue to recover your speech. Jared started doing that, reluctantly because he knows that sometimes he still thinks one thing and speaks another thing that is completely unrelated, so Jared was quite nervous to talk on the radio due to the possibility of making a mistake or sounding like a fool, but he started anyway. He started talking to his old friend Alan (N7SHA) on the 448.600 and after a few months the next time the speech therapist checked on Jared, she had mentioned that it was obvious that Jared's talking on the radio had drastically improved his speech so much that she has now released Jared from her speech therapy care.

Jared W7FMJ, in the black shirt, at Colleen KJ7EAY antenna party September 2020.

On October 6th, 2 months ago, I had told this story about Jared to Jerry Cottrell, KG7IGW, and after about a day or two of Jerry thinking about the story, he asked me if I would write an article for the OARC newsletter explaining Jared's story of using HAM radio to assist with Jared's recover/therapy and how well it worked to get Jared talking properly again. I replied to Jerry that it would be a great idea for me to write the article, but I got busy as always and I didn't "make the time" to write the article. As most of you know, Jerry Cottrell is now a silent key. I really loved Jerry, he was an incredible guy. He volunteered recently to assist me in programming the 40+ radios in all of the county's E.O.C's, in the city offices, Ogden clinics, hospitals, etc. so I wouldn't have to do them all by myself like I normally do, it takes a lot of time driving around and getting them all done and he knew that so he volunteered to assist. Jerry did this for us (ARES) and he did a fantastic job, and he updated the spreadsheet I had emailed him and he would email it back to us showing the radios he reprogrammed so the ARES group would know when they were all done. He had just finished programming all of the radios for us when he passed away. I decided that I should at least honor his wish/ suggestion of me writing this article about Jared so that those who listen to the 448.600 would know more about Jared's story and how HAM radio helped him.

Scott Willis KD7EKO

FEATURE ARTICLE

by Kent Gardner WA7AHY

Windstorm Aftermath Rebuild

The happenings in the last several months (September, October and November of 2020) have spurred a flurry of antenna rebuild and storm damage articles in our *Watts News*. The "hurricane" caused a lot of problems to be sure. Some really good stuff has shown up such as:

Gene Morgan, WB7RLX in the September and October issues about rebuilding antennas such as the Comet X300, the Butternutt HE4V and the Hustler $BTU and building an end-fed wire antenna.

Scott Willis, KD7EKO in the November issue about he and Mike Fullmer repairing the broken receive antenna at the Little Mountain repeater site.

Scott Willis, Gene Morgan along with the crew of Stan Sjol and Justin Hall taking down a tower with Scott's 40- foot boom lift and repairing the badly bent tower and otherwise fixing a number of other problems caused by the storm.

My article about the 100 Year Storm also in the November issue, caused some damage that has taken me almost a month to get my antennas back into operation. The photo below shows my neighbor's Blue Spruce tree (on the right just over the shack roof) that fell behind my ham shack. Several branches fell on two of my guy ropes and caused my 2x4 antenna framework to bend precariously.

My story begins with my experience in my high school days in Burley, Idaho. The airport was small, but there was an FAA flight service station there. I used to go to that small building and talk with the controller on duty just to be around flying and radio. The antennas were attached to a wooden framework (redwood) that surrounded the shack. I have always thought that I wanted to duplicate that idea. The following photo shows the 2x4 framework that was damaged.

The new steel tower supported framework, painted the same color as my ham shack, is ready to receive the antennas. I had to transfer each antenna to the new frame one by one. I was then able to tear out the old framework. When I built the original setup, I had the wavelength separation of the antennas figured out. This time I just used the eyeball method. I am sure they are within a few inches of the original.

Earlier this year I purchased some steel tower sections from my neighbor. They are triangular with 8 inches on a side. Sections were placed at three corners of the shack so I could attach them to the end boards for strength. Rain gutters on the East and West sides of the shack were problematic because of the overhang. With the tower mount arrangement, I can raise or lower each side by loosening the stainless-steel hose clamps. With a helper on one tower and me on the other we can do it easily. If alone, I would have to move it a little on one tower and then go the other and do the same and then go back and forth. I use chain-link top rails 10 feet long for all my masts.

I had some concrete pillars blocks left over from building my wife's greenhouse foundation. I planted them in the ground for the towers to rest on. It surely beats having to pour cement for the bases. Until I can find some bolt-on brackets, I secured one corner with a hose clamp and the "baling wire" twist for the other two. The bottom of my surplus pole mast from Smith and Edwards is at the top of the picture and to the right. I placed the bottom section over one of the levers usually used for clamping on another tower section. Now the bottom won't move. As an aside, here is another story. Several years ago, I went to buy the same fiber-glass sections that we use for our club field day masts. They only had one white one in the box. I told the guy that I needed six more, expecting to get the camouflaged poles. He went to the warehouse and brought the white ones out, still for $5.00 each. Now that I have been painting my antenna framework the same color as the shack, the white poles match nicely.

The fourth tower next, shown leaning on the ladder, was placed in front of the shack instead of at the end because it had a tilt-over base. I had to make sure my cherry tree was trimmed to allow clearance with my over-the-air TV antenna and two-meter beam. I may have to detach the 6-meter beam in order to tilt over the front mounted tower. Ouch. I did have to pour a concrete base for it.

I did struggle to put in the four anchor bolts. I put large washers on each so once the concrete dried, it would be difficult to pull them out. I should have put right angle legs on each so when I tightened the nuts, the bolts wouldn't turn. I also tried to use some old sacks of concrete mix that had hardened. I broke it up with a sledge hammer and it seemed to soften when I added water. I put it in the bottom of the hole and used newly purchased bags to mix up for the top.

The bottom layer did not “cement up”, so I may have problems with the top layer separating when I raise or lower the tower.

All this, brings up a story. I was chief tech at the new Cable TV system in Fullerton, California back in the early 1980s. We were to install a 140-foot tower for the receive and microwave antennas at the headend. The tower company sent me the layout and measurements for the anchor bolts. I dutifully used the positioning sheet to place the bolts when we poured the base. The day before the tower was to be installed, the manager told me that I would be summarily fired if the tower did not fit the bolt pattern. There was a dozen or so on the install crew and a very large crane there that day. Shudder the thought that all that expense would be wasted if I had not positioned the bolts correctly to fit when the tower was raised. Luckily for me, the tower base fit.

The following photo shows how I handled the ground wires. Number 10? copper ground wires are attached to each antenna base. The ground wires continue downward. I pounded in 1x2 furring strips and stapled the wires down to the bottom where my ground rods from the old framework were. The coax runs were attached to a 2x4 mounted horizontally and run to the North side of the shack were the cable entry is.

My fiberglass Citizens Band base antenna was snapped at 180 degrees, but it did not break the copper radiating wire inside. I looked at a fiberglass repair kit, but it was about $20.00. I ended up finding some thin wooden strips and used Gorilla glue and then electrical tape to strengthen the break. I started by “gooping” the broken area with the glue and then using a few wraps of tape to secure the fiberglass section. I then wrapped the entire area with electrical tape and then spray painted it. It now merely looks like a cool loading coil. Originally, I had the CB antenna positioned on the North side of the shack so if it fell to the West it wouldn’t contact the lower of the two power lines running along my property line. Under the new setup, it looks like it could make contact, but I reasoned; however conveniently, that it is non-conductive fiberglass.

I have two TV antenna rotators. Their mounting presented a problem, in that they would not fit in the middle of the triangular tower sections so I could not put the mast in the middle where they would normally go to rotate. I have had some 19” aluminum rack panels for 18 years from when I had all my radios in the shack in 19” cabinets. I took two of the panels and cut them in half and drilled holes to mount on one side. The four holes in the middle is where the rotator bolted to the plates.

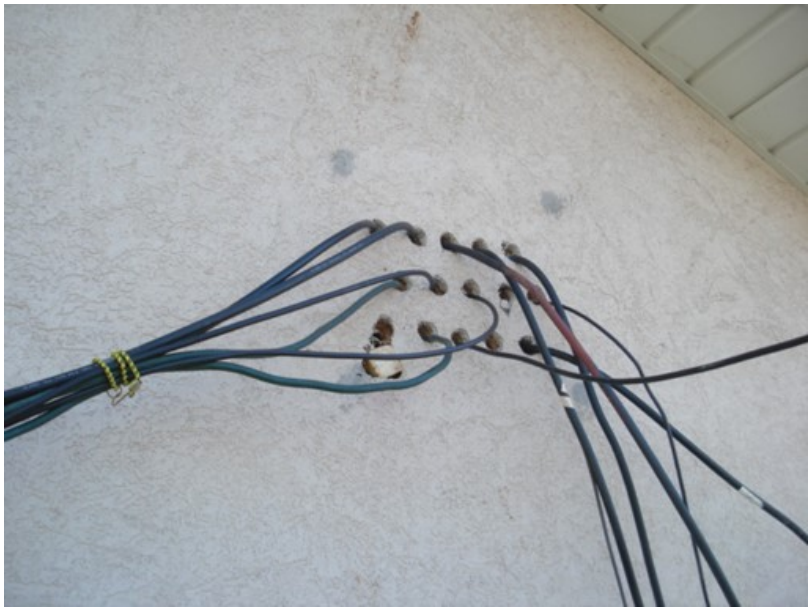
The top of the tower spacer panel had a mast hole in the middle so I added a flat cover plate and sawed a channel for plate to allow the mast to be plumb on the outside of the tower.

This one shown was for my new six-meter beam. More about that antenna in a future story.

The other mast had a top plate with a hole outside the tower already so I did not need to fabricate a new flat plate. The existing hole for the mast; however, was slightly closer to the tower. Its rotator had to be mounted an inch or so farther out so the mast is slightly tilted. This means that the antennas will be slightly skewed as they make a 360-degree rotation. Oh well.

I had one rotator for years. I received a phone call from my friend who sold me the tower sections. He said he saw a TV antenna rotator for sale at Lowes for $30. I suspect it sold for around $100.00 originally. I immediately went to Lowes and found it still on the shelf. When I checked out, I had to go back and get the reduced-price sticker and show it to the cashier. When he tried to ring it up it showed $12.00. That is what I ended up paying for it. Cool !

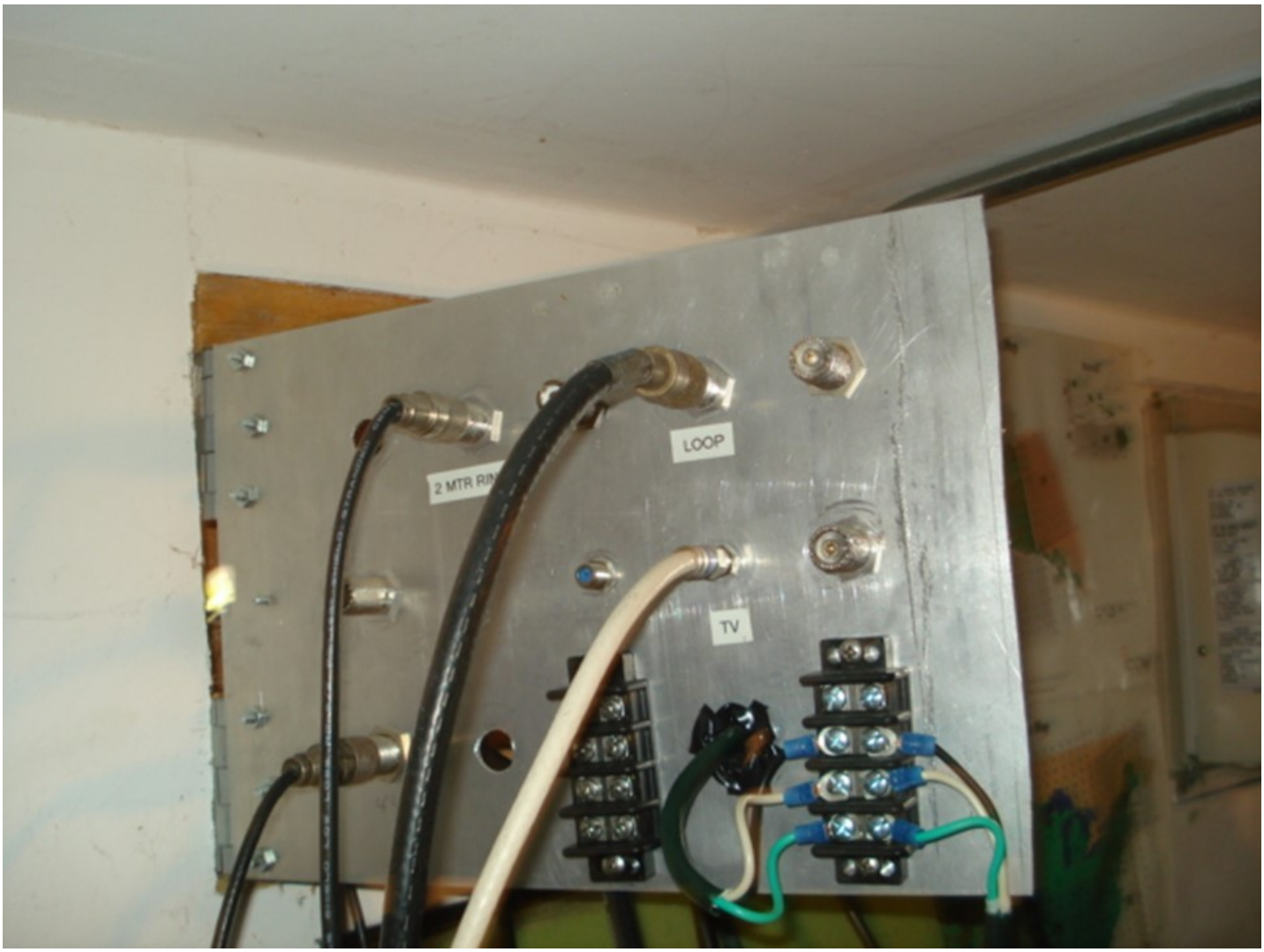
The following picture shows my cable entry point into the stucco-foam wall.



I drilled 12 holes in the outside wall with a drill bit that I thought was big enough to accommodate anything. I found that I had to insert the coax into the hole and then put on the fittings. Once I did this, some of the PL -259s would not pull back out for convenient rearrangement. I had to pull everything out and redrill the holes. It was a mess, but now I can conveniently do it any way I want.

Inside, I installed a swinging aluminum plate/patch panel. It is grounded by an attached wire run through one of the holes to a ground rod outside. Since I was trying to get all the outside work done before it snowed and turned cold, I left the inside work to do last. With my space heater working, I can do work in relative comfort. The cabling has to move in and out of the holes so I can close or open the plate. That is why the outside drip loops/configuration looks a bit messy. The green piece of foam shown in the picture will eventually be the insulating barrier to keep the cold and heat out/in. Holes will be punched for each cable to allow for the in and out motion when the plate is moved. A “bit sticky” perhaps, but it is the best I have come up with for now. I may have to try some layers of fiberglass insulation if the foam doesn’t work out. It is a work in-progress.

On the inside I used feedthroughs for the cables. The two terminal strips handle the rotator cables which are three conductor electrical extension cords with the plugs cut off. The tie strips were hard to find. I tried both Lowes and Home Depot, but didn't find anything that would work. I finally checked out State Trailer on Washington in Ogden. These were just perfect for what I needed.



My antenna setup is as follows:

Rear 2x4 frame from left to right:

- White antenna section mast holds up my Skyloop wire antenna. It is 272 feet total length and is a square running all around my back yard.
- 2-meter Ringo
- Scanner ground plane
- 440 MHz J-pole
- CB base station vertical

Front left tower:

- 6-meter 3 element beam
- The left two towers also support two 21 MHz wire dipoles that are phased together. It was designed to listen for radio signals from Jupiter (Project Jove).

Front right tower:

- Bottom is a UHF over-the-air TV antenna. The tower is plumb, but the mast is leaning slightly as mentioned before.
- Top is a 4-element 2-meter beam I bought at a club steak fry auction.

I also have a G5RV dipole antenna sloping up to the house along the North fence line. A Hints and Kinks article in the *WATTS NEWS* July 2019 issue shows this in more detail.

The shack itself used to be a garden shed when I first moved here in 2003. It is now insulated and has wallboard and carpet. All electrical wiring is in conduit. I built in an air conditioner and use a space heater for comfort. You can probably see the two coax cables from the twin dipoles hanging down into my grape vines. Technically, they should be running approximately Southeast to Southwest to follow the appearance of Jupiter in the sky, but the North to South line will have to do.

Leaning up against the shack are my aluminum Army surplus antenna poles. I use them when I go camping. There are also some pieces left over from my triangular tower purchase. The ground rod behind the poles showing in front is to be pounded in for the tilt-over tower grounding. My operating console is featured in the September 2020 issue of *WATTS NEWS* as the mystery shack of the month. The weather has been pretty good to me in that the afternoon and sunlight has allowed me to work outside.

The towers cost me $150.00 and I probably spent about $100.00 on new U-bolts and other hardware during this rebuild.

TNX Kent Gardner, WA7AHY

GUEST ARTICLE

by Dan KB6NU

Operating notes: Flex down for Win10 updates

One downside to owning a FlexRadio is that you need a computer to operate the thing. (It can be used with a Maestro, but a Maestro is just a PC in a custom package.) The other day after I woke up the computer, it reminded me that I needed to update the Windows 10 software. It had been a while, so I gave the command to go ahead.

This update to more than an hour, during which time I was off the air. I hadn't expected that at all, as earlier updates had taken far less time. Fortunately, I had other things to do around the shack, so it wasn't a complete waste of time.

A CW QSO every day…

I've often mentioned that I try to average at least three CW QSOs per day. Well, yesterday, I worked Glen, W1ND, who siad that I inspired him to work at making one CW QSO every day, and that to date in 2020, he's accomplished that feat. Not only that, he reports that his CW has gotten much better over the course of the year. Way to go, Glen!

73, Dan, KB6NU

ARRL Petitions FCC for Reconsideration of Order Removing 3.4 GHz Amateur Allocation

ARRL has petitioned the FCC to reconsider its order removing the secondary amateur allocation at 3.3 – 3.5 GHz and requiring that amateur operations in the 3.450 – 3.500 GHz band cease "on a date consistent with the first possible grant of flexible use authorizations to new users."

"The amateur services in this band long have been operated on a secondary allocation status, functionally similar to the de facto secondary status of Part 5 experimental licenses, whose continued operation was (correctly) approved in the same proceeding," ARRL told the FCC. "Continued operation of amateur stations similarly should be permitted in the vacant portions of this spectrum that otherwise will go unused."

ARRL said the public interest is in using the spectrum, not in leaving it vacant waiting for some future application. "The Commission's decision in this proceeding undermines its long-standing policy objective to provide for and encourage more intensive use of spectrum." ARRL said.

"The Commission's decision to remove the amateur secondary allocation throughout the 3300 – 3500 MHz band," ARRL said, "appears to be based upon a mistaken conclusion that amateur secondary 'sharing' of this spectrum is equivalent to the type of 'sharing' that occurs with primary government and other primary commercial users, when in fact amateur secondary operations are quite different in usage, scope and signal range."

ARRL outlined a number of ways radio amateurs use the band.

ARRL said that weak-signal point-to-point amateur communication often applies new technologies, methodologies, and coding to improve the communications capability of equipment. "Since the purpose of this type of activity is to hear or decode weak signals, operators use every possible means to avoid frequencies with other signals."

Amateurs also operate radio beacons to study propagation, contributing to a better understanding of propagation in the 3.4 GHz range, ARRL said. "Amateur beacons are fixed and low power, and therefore relatively easy to engineer into the environment if other users initiate operations, or to relocate or shut down if they cannot be 'engineered in.'"

ARRL's petition also cited moonbounce as another aspect of amateur operation. "This field of activity has led to a chain of improvements in antennas and equipment design in the 3.4 GHz spectrum," ARRL asserted, and is extremely unlikely to interfere with terrestrial services.

Amateur satellites also could use the 3.4 – 3.41 GHz band with minimal likelihood to present interference concerns due to the signals' low power and narrow antenna beamwidths. Plus uplinks employ antenna that point skyward, further minimizing any possible area of concern. "Other frequencies will not necessarily be available when needed, and this limitation threatens to constrain future experiments with space communications technologies as the number of amateur satellite experiments increase in number and purpose," ARRL said.

The 3.3 – 3.5 GHz band also is used for digital high-speed data mesh networks and for amateur TV repeaters. "Design of and work with mesh networks has attracted an ongoing stream of computer-literate youth to the amateur ranks," ARRL contended. "The networks themselves are commonly employed for digital experimentation with a wide range of technologies and services, with a bedrock purpose of emergency readiness and availability during actual emergencies. ARRL noted that the greater the number of available band choices, the more likely that a suitable link could be engineered for a specific path.

ARRL said that these and other amateur experimental activities make good use of the spectrum, "and should be permitted to continue on a secondary basis unless and until a new primary licensee is ready to operate in a geographic area where interference would result."

FCC to Require Email Addresses on Applications

Amateur radio licensees and candidates will have to provide the FCC with an email address on applications, effective in mid-2021. If no email address is included, the FCC may dismiss the application as defective. The FCC is fully transitioning to electronic correspondence and will no longer print or provide wireless licensees with hard-copy authorizations or registrations by mail. A *Report and Orde*r (*R&O*) on "Completing the Transition to Electronic Filing, Licenses and Authorizations, and Correspondence in the Wireless Radio Services" in WT Docket 19-212 was adopted on September 16. The new rules will go into effect 6 months after publication in the *Federal Register*, which hasn't happened yet, but the FCC is already strongly encouraging applicants to provide an email address. When an email address is provided, licensees will receive an official electronic copy of their licenses when the application is granted.

Under Section 97.21 of the new rules, a person holding a valid amateur station license "must apply to the FCC for a modification of the license grant as necessary to show the correct mailing and email address, licensee name, club name, license trustee name, or license custodian name." For a club or military recreation station license, the application must be presented in document form to a club station call sign administrator who must submit the information to the FCC in an electronic batch file.

Under new Section 97.23, each license will have to show the grantee's correct name, mailing address, and email address. "The email address must be an address where the grantee can receive electronic correspondence," the amended rule will state. "Revocation of the station license or suspension of the operator license may result when correspondence from the FCC is returned as undeliverable because the grantee failed to provide the correct email address."

Arecibo Observatory Suffers a Fatal Blow as Instrument Platform Falls

The 900-ton instrument platform of the 305-meter radio telescope at Arecibo Observatory in Puerto Rico fell some 400 feet Tuesday morning, crashing into the huge, already-damaged dish below, the National Science Foundation (NSF) reported in a December 1 Tweet. "No injuries were reported," NSF said, adding that it is still assessing the situation. "Our top priority is maintaining safety." The calamity not only was a final and fatal blow for the observatory but for the people of Puerto Rico.

Head of Telescope Operations Angel Vazquez, WP3R, called December 1 "indeed a sad day." Vazquez was in the Observatory's control room at the time, salvaging important instruments when he heard a loud noise.

"At around 7:55 AM, the platform collapsed due to the extra stress on the existing cables because of the main cable failure in November. Strands were starting to pop all weekend long, and it was just a matter of time," he told ARRL. "It came off the easternmost tower (T4) and took about 15 seconds. The azimuth arm that housed the dome came off the track, fell into the dish a little north of center and the triangle was pulled by the other existing cables to the northwestern part of the dish. The tops of the towers broke as well. This was a 900-ton platform, and the dome was smashed like an eggshell."

Vazquez said the Observatory still has a 12-meter dish that will be used for radio astronomy, as well as a LIDAR Lab and an Optical Lab with photometers. "The site by no means is closed and it wasn't the intent of NSF to close the facility, he said. "They did want us to stabilize the platform, so it could be lowered safely. We are looking into rebuild possibilities."

On August 10, an auxiliary cable that helped to support the platform snapped and fell, causing a 100-foot gash in the reflector dish. After an extensive evaluation, NSF announced on November 19 that the damaged radio telescope -- in service for nearly 60 years -- was beyond repair and would be decommissioned due to safety concerns.

The iconic dish has served as a backdrop for several science fiction movies. The Arecibo Observatory Amateur Radio Club, KP4AO, is headquartered at the Observatory, and several other radio amateurs are employed there in addition to Vazquez.

Before the fall:

Arecibo Observatory

O’bay SWAP

GAP Titan DX 8 Band Multiband Vertical HF Antenna

http://gapantenna.com/shop/antennas/titan-dx/

FOR SALE: $200 (negotiable)
CONTACT: James Clarke k7JSC, jsclarkeiv@gmail.com

O’bay SWAP

Hi Utah ARRL Club Contacts,

I have a pneumatic Ham Radio Antenna at my home in Layton, UT.

Would you know of anyone who might be interested in it or have a referral for any resource to sell it?

>>> $100 OBO <<<

Please feel free to share my contact info: Thank you,

Christopher Robinson: 303-257-4454 pangeaao@hotmail.com

Esther Robinson: 720-577-8704 estherdrobinson@hotmail.com

Mast height: ~16 ft (above ground), ~ 13.5 ft to first knuckle

Mast circumference: 20.5 in

Four tiered, presumed extended height ~ 40 ft

Anchored in ground

CLUB REPEATER NEWS

Scott Willis KD7EKO Mike Fullmer KZ7O

Scott Willis KD7EKO and Mike Fullmer KZ7O are the OARC repeater engineers that keep our club repeaters at Mt Ogden and Little Mountain operational.

OARC MEMBERSHIP DRIVE

SUPPORT YOUR RADIO CLUB

Don't forget to signup/renew your OARC membership now ($15) which runs August to August. Consider signing up your spouse as well.

Ham + Spouse = $15 + $10 = $25

THANK YOU FOR YOUR SUPPORT

Join OARC

Join or Renew your membership now!

Joining & Renewal is easy. On the club website home page click Join/Renew tab and fill out the membership form. You can pay using your PayPal or mail a Check or Money Order to the club PO Box listed. Or print a hardcopy of the membership form, fill it out and mail it to the PO Box along with your payment. Better yet, Come to a club meeting and bring the completed membership form with you.

DUES: Dues are $15.00 per person and runs August - August. (Ham + spouse = $25.) More than one ham in the family? Consider the OARC Family plan for $25.

NOTE: New Hams >>> Membership in OARC is complimentary for remainder of 1st year licensed.

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

Club Badges

OARC Club badges are available for all licensed club members.

The cost is $10.00 each. The badge comes with a “MAGNETIC” clip. Badge includes your Call Sign in large letters and your First Name in a somewhat smaller font in white lettering on a pitch black background with the club logo. See example below.

Place your order along with $10.00 prepaid in advance for each badge ordered and specify Call Sign and First Name.

Visit the club website home page Join/Renew tab and fill out a membership application form to order your badge.

Or come to our next club meeting or event and make contact with our club treasurer via club website email to order your club badge.

Club Badges

UNCLAIMED OARC CLUB BADGES

New members have ordered pre-paid club badges that have not been claimed. You can claim your badge at any club function, meeting, activity or event or contact the club badge czar / club treasurer J. Siddle KG7CJN via club website email. If you are reading this and you are one of the following hams, please collect your badge. Even if you are not reading this, come collect your badge.

NO UNCLAIMED OARC CLUB BADGES…

Not sure how to handle this. It has never happened before!

OARC YAHOO GROUP

Did you know that OARC has a Yahoo Group?

Discontinued after 15 December 2020 .. sorry

We occasionally communicate with our OARC members via the Yahoo Group. Receive email notices regarding upcoming club meetings and future e-newsletter release notices and much more like CHAT items of interest.

You can also send/receive notices to/from other group members yourself.

It's easy to sign up…

Just click on the 

icon at the bottom of the club website home page and then follow the Yahoo Group instructions to create yourself a user ID and password.

OARC You Tube Channel

Did you know that OARC has a You Tube Channel ?

A lot of our meeting presentations are recorded and posted to our OARC You Tube channel for you to view at a later date.

It's easy to view missed **meetings…**

Just click on the icon on the bottom of the club website home page to view recorded meetings preserved for your viewing pleasure.

ANNOUNCEMENTS

Next Club Meeting:

3rd Saturday of each Month

The Ogden Amateur Radio Club meetings are usually held on the **3rd Saturday** of each month.

Meeting/Activity:

See notices above

Talk-in: - 448.600 (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 Feb, Jun & Oct

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

Time: 06:00 PM *Walk-ins allowed*

Location: Permanent location

Weber County Sheriff Office
Training Room
712 W 12th Street Ogden Utah

Contact: VE Liaison:

Rick Morrison W7RIK (Liaison)

morrisonri@msn.com (801-791-9364)

Jason Miles KE7IET (IT)

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.

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

(*) Yaesu Fusion digital/FM compatible

FREQ	CLUB	TONE	LOCATION
146.900-	OARC (*)	125 DCS	Mt Ogden (w/WiresX)
448.600-	OARC (*) "talk-in"	123.0	Mt Ogden
146.820-	OARC (*)	123.0	Little Mtn
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-	GSARC	123.0	Brigham City
145.430-	GSARC	123.0	Brigham City
147.220+	GSARC	123.0	Brigham City
448.300-	GSARC	123.0	Brigham City
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
147.100+	Morgan	123.0	Morgan Co
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 Co	100.0	Lewis Peak

AREA CLUB MEETINGS & WEB SITES

CLUB	WEB SITE	DATE/TIME	LOCATION
OgdenARC	ogdenarc.org	3rd Saturday 09:00 am	Check OARC web site …
WC Sheriff Comm-O		1st Saturday 10:00 am	Weber Co. Sheriff Complex West 12th Street Ogden Utah
Barc	barconline.org	2nd 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	2nd Saturday 10:00 am	Davis Co. Sheriff Complex Farmington Utah
NU Ares	home.comcast.net/ ~noutares/	3rd Wednesday 7:00 pm	Cache Co. Sheriff Office Logan Utah
Uarc	xmission.com /~uarc/	1st Thursday 7:30 pm	UofU EMC Bldg Room 101 Salt Lake City Utah
UVarc	https://uvarc.club	1st Thursday 6:30 pm	Orem City Council Chamber Room 56 North State St. Orem Utah
GSarc	Ubetarc.org	Check Website	Check Website
Utah DX Association	udxa.org	3rd 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)
WDArc	westdesertarc.org/	1st Tuesday 7:00 pm	Tooele County Courthouse Tooele Utah
WsuArc	https:groups.google.com/forum/#!forum/wsuarc	3rd 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	GS ARC	145.430 - 123.0 (training net)
Sunday @ 8:30 PM	SATERN Net	145.900 - 123.0
Sunday @ 9:00 PM	Morgan Co Net	147.100 +123.0
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 @ 6:30 PM	OARC—Ham & Eggs Net	448.600 -123.0
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 @ 7:00 PM	Am-Con Northern Utah	448.600 –123.0
Wednesday @ 8:00 PM	GS 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 @ 7:00 PM	OARC - 10 Meter Net	28.385 MHz USB (all hams invited)
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 3rd 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 3rd Saturday – odd months only
Saturday @ 11:00AM mst	QCWA net HF	7.272 Mhz HF LSB

OARC OFFICERS

President: Dave Mamanakis KD7GR

Vice President: Justin Hall KB7LAK

Secretary: Barbara Siddle WB7FWW

Treasurer: J. Siddle KG7CJN

Program Director: Mike Wilde KJ7HEX

Activity Director: Todd Shobe KW7TES

"WATTS NEWS" e-Magazine

NL Editor: Val Campbell K7HCP

"OARC" web site

Webmaster: Val Campbell K7HCP

OTHER CLUB APPOINTMENTS

VE Liaisons: Richard Morrison W7RIK
Jason Miles KE7IET (IT)

Repeater Engineers: Mike Fullmer KZ7O
Scott Willis KD7EKO

Photographer: Tim Samuelson KE7DOA

Asst Photographer: Rick Hansen N7EGA

QSL Manager: Pete Heisig WB6WGS

Historian: Kent Gardner WA7AHY

Equipment Manager: Val Campbell K7HCP

Club Call Sign Trustee: Larry Griffin AD7GL

Club Elmer: Stan Sjol W0KP

Centennial Committee Chair:
Gil Leonard NG7IL

Advisors: Mike Fullmer KZ7O
Kent Gardner WA7AHY
Kim Owen KO7U
Larry Griffin AD7GL
Gil Leonard NG7IL
Jason Miles K7IET

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