



WATTS NEWS



The Best of Amateur Radio

OARC e-Magazine

www.OgdenArc.org

JULY 2020

Next Club Meeting/Activity

July Activity



Dave Mamanakis KD7GR

President



Mike Taylor KE7NQH

Vice President



Barbara Siddle KB7FWW

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J. Siddle KG7CJN

Treasurer



Gil Leonard NG7IL

Program Director



Bob Smith KG7EIZ

Activity Director



Val Campbell K7HCP

Webmaster/NL Editor

PREVIOUS CLUB MEETING/ACTIVITY

JUNE Activity

ARRL Field Day Event

Saturday 27 & Sunday 28 June 2020

NEXT CLUB MEETING/ACTIVITY

JULY Activity

OARC "T"-Hunt

3rd Saturday 18 July 2020

8:00 AM

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

OARC "T"-Hunt

See the following page for details

Next VE Test Session

1st Wednesday 07 October 2020 @ 6:00 PM

CLUB NEWS

OARC "T"-HUNT

3rd Saturday 18 July 2020

Time: 8:00 AM (start from home)

"T"- Hunt + Breakfast in the Park

Date: 3rd Saturday, 18 July 2020

Time: 8:00 AM start time (start from your home)

FREQUENCY >>> 145.41 MHz simplex

Location: Weber County (West of Mtns) and will be located in a Park (or NOT) somewhere within the county.

Activity: "T"- Hunt followed by Breakfast in the Park (locate the bunny and then enjoy a free breakfast)

Details: The bunny will be hiding in one of the PARKS (maybe not) in the greater Ogden area, probably one with a bowery (maybe not).

Over-the-Air Hints: Call in on 146.90 (Mt Ogden repeater) for hints - if you need them.

Give Up?: Call in on 146.82 (Little Mountain repeater) for the bunny and breakfast location.

FREQUENCY >>> 145.41 MHz simplex : Monitor 146.90 repeater for info

Hone your skills at tracking down the location of the hidden transmitter. It will require a bit of skill and will require driving, so bring a designated driver to assist you with the challenging activity. There will be a prize for the first contestant to locate the hidden transmitter.

You can hunt the fox with your HT and a paper clip. Hold the unit down close to your chest and pirouette around and find the direction where the signal sounds the weakest. If the signal is full quieting, de-tune the radio 5 or 10 kHz until some noise is heard with the signal. When you have found the direction of weakest-sounding signal, the signal is coming from behind you. This is the direction from which your body provides the most attenuation.

Dave's Rag Chew



Dave Mamanakis KD7GR

Anyone for a T-Hunt?

First, I'd like to thank everyone who came out to Field Day and helped to set up, take down, and operate!

Seriously, we have one of the best Ham Radio Clubs around! I couldn't do all this by myself! So, a truly heartfelt THANK YOU to everyone who comes out, participates, and makes these events GREAT!

Yes, We had Field Day! We did it with some social distancing, one station about 40 feet from the other. We had dinner, and people sat as far as they were comfortable!

We made about 240 contacts on site, plus what will be included from those who participated from home or other locations!

We'll have totals for you later on!

Now. The Transmitter Hunt, T-Hunt, Bunny Hunt... whatever you like to call it... is coming up! This can be done TOTALLY in isolation. Doesn't get more isolated than being inside your own car!

We will set up on the 3rd Saturday, somewhere in Weber County. It might be a park, it might be someone's home, it might be anywhere!

We've decided to mix it up a bit, because it is supposed to be developing a skill!

Don't worry, it isn't going to be hard...

Again, this year, we will be offering a \$25 gift card, or cash... a small token for the first person to find it! And, yes, we will be doing breakfast! We'll keep it simple!

The details will follow, but plan to take a couple hours Saturday morning and find the Transmitter! It's a great skill to have!

... continued ...

Dave's Rag Chew

My Friends!

I've been talking about things like Digital Modes, Operating Etiquette, and other things for a few months now, and this one won't be any different. These are things I have come to understand and like to share!

In this Rag Chew, I'd like to talk about Prowords, 10-Codes, and 92-codes.

In the Citizen Band (CB) world, you will hear lingo like "10-4 good buddy" and "over and out"... but you don't hear those much on Ham Radio. Have you ever wondered why?

CB used to require licensing, but was "opened" for use some time in 1977. It was very popular in the 60s, 70s, and 80s... and has, sort of, lost favor since then. Some still use it as a quick and easy method of communication, but it has its limitations.

CB, with its popularity, was featured in many movies and tv shows. This is, I believe, where many people get the "lingo" from. They like to use "10 Codes", like 10-4, which means "message received" or "ok".

The problem with 10-codes? They can change from place to place. Not every police department or state agency (where 10-codes come from) use them the same way. A 10-70 in one area might mean "a fire" and in another area, "a prowler"... 10-100 might mean "bio break" in one area, but "civil disturbance" in another.

This is why we can't/don't use 10-codes in Ham Radio. There is no single source for their meanings. It isn't standardized.

What about other codes? Like the Q-Codes?

Q-Codes, as well as other CW Shorthand, and even the Western Union numeric codes (92-code) have all been around for about 200 years. These were first developed for the Wired Telegraph and have persisted over into the wireless telegraph...

The 92-code we commonly use is "73". It means "Best Regards". You may have heard about "88" which means "love and kisses"... There are not really 92 codes (there might have been) but we have 42 that are or could be still in use.

Q-codes were and are also used extensively. You might remember some of them from your Ham Radio Licensing Test: QSY (Change Frequency), QRM (Manmade Interference), QTH (Home Location).

Q-Codes come from the British Government in 1909. They can be used as either a question or statement. But there is only one set of Q-Codes and they are the same now as they were then.

We also hear or see a lot of CW Shorthand. DX for instance, means "Distance". For CW, it is easier to do "DX" (dah dit dit dah dit dit dah) than it is to do "Distance" (dah dit dit dit dit dit dit dit dah dit dah dah dit dah dit dah dit dit).

There are over a hundred of these types of codes. DE means "from", CQ means "calling any station", and YL which means "Young Lady"...

There are many others!

So, how do all these types of codes compare with Prowords?

What's a Proword?

Procedure Words == Prowords.

Prowords are words we use in Ham Radio with special meaning... maybe even different meanings than what might be used in the CB world.

One of these words is "Break". In the CB world, you might hear "Breaker Breaker One Nine"... this is used on channel 19 to try to break into a conversation in progress, or to get someone's attention on channel 19.

But in Ham Radio, we use "Break" to let someone on a frequency know that we may have an emergency and we need to break into their conversation. We usually repeat these kinds of Prowords three times. "Break Break Break". If you hear that, you should give them the frequency for their message or communication, "Go ahead, Break"!

They may also use "Emergency Emergency Emergency" or "Priority Priority Priority". These should accomplish the same thing: Let them have the frequency for their emergency traffic.

"Break" can be a bit confusing. It can also be used during the passing of a message (Radio Grams) to separate one part of the message from the other. But in this case, context is everything.

If you do want to break into someone's conversation, the proper way in Ham Radio is to just call out your call sign. This will let everyone know who you are and that you'd like to join it.

Other Prowords are "affirmative", "negative", and "roger". There are many others and they are commonly used by those who pass message traffic. Others you might hear are "wait one", which means to "hold on a second", i.e. they aren't done, but need to do something first. "Traffic" means you have something to say, usually during a net or conversation.

"Mayday" indicates you are in serious trouble... and many others.

We use these as kind of a "short hand"... "wait one" is much shorter than, "hey, could you hold on a second and let me look that up".

While with Phone (voice) communication, this isn't a huge deal, when you are communicating via Digital or CW, it can save a huge amount of typing or sending.

The biggest difference between “CB Lingo” and “Ham Radio” is how long these things have been around and how “unchangeable” they are in the Ham Radio world.

For Ham Radio, many if not most of these “codes” have been around for around 200 years. CB seems to change as time goes on.

For an example... it is common on CB to hear, “over and out”. This is a little weird as “over” means “your turn to talk” and “out” means “I’m done talking/listening”. When combined, you are giving the person a mixed message, “it’s your turn to talk, but I’m not listening”... In Ham Radio, these Prowords aren’t combined in this way. “Over” is used to let the other person know they can now talk... and then, when you are done with the conversation, “out” is used to let the other person know you are done and gone.

All these Codes and Prowords can be found easily online. Feel free to use them on Ham Radio! But PLEASE, never use 10-codes, and be sure to use Prowords correctly.

--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

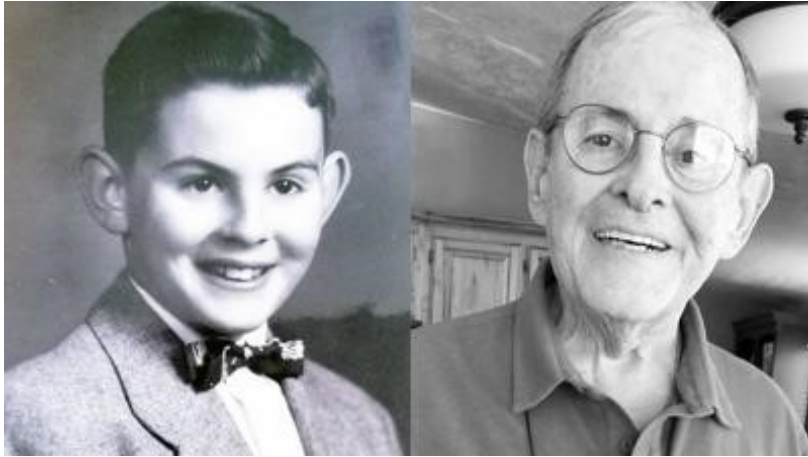
NOTICE

OARC - CW Net

Has been suspended

CLUB NEWS

Mack Gilbert (K7HEN) (sk)



1943 ~ 2020

On Wednesday, 24 June 2020, Mack Gardiner Gilbert, our beloved husband, dad, pops and grandpa passed away peacefully at his home in Ephraim, Utah at the age of 76 following a battle with cancer.

Mack was born on 15 November 1943 in Ogden, Utah to Melvin and Valentine (Gardiner) Gilbert. On 21 August 1987 Mack married his sweetheart Barbara Furner Gilbert and later sealed in the Jordan River Temple on 21 January 1993. Mack is survived by his wife, Barbara Gilbert, their children, Tadd (Elyse) Ipsen, Barry Mack (Katerina) Gilbert, Kimberley (Todd) Hightower, Wendy (Eric) Karoska, Cyndi (John) Coyle, and Allyson (Chris) Corros and their 12 grandchildren and one great-granddaughter.

He was an avid ham radio operator since the age of 13 (**K7HEN**). He was a faithful member of The Church of Jesus Christ of Latter-day Saints. He served a mission in Florida. He attended Weber State University after he enlisted in the Air Force and served his country in Thailand during the Vietnam War. He received his business management degree at the University of Phoenix. He loved traveling, had a sweet tooth, and adored his family.

A Celebration of Life will be held Tuesday, June 30, 2020, from 6:00 p.m. to 8:00 p.m. at Pioneer Park, 100 North 75 West, Ephraim, UT 84627.

A viewing will be held on Wednesday, July 1, 2020, from 6:00 p.m. to 8:00 p.m. at Broomhead Funeral Home, 12600 South 2200 West, Riverton, UT 84065. Graveside services will be held on Thursday, July 2, 2020, at 11 a.m. at the Utah Veterans Memorial Park, 17111 South 1700 W. (Camp Williams Road) Bluffdale, UT 84065

CLUB NEWS

Little Mountain Repeater—Update

The 448.575 repeater has been pretty "deaf" for a couple of years. It has been fully functional, but just didn't hear very well. Multiple things have been tried in the last year, with no success. Another attempt at fixing it was made on the 4th of July 2020, early in the morning, before it got hot.

This time there was success. The duplexer and several small pieces of coax were bypassed. Removing the duplexer required an additional antenna. So, now the 448.575 repeater has two antennas, one for receiving and one for transmitting.

It is operating in a temporary state at the moment and needs some cleanup (coax jumpers and connectors need changing), but it has not worked this well for years. The cleanup will occur in the next few weeks after it has been fully tested out.

Those assisting with the above were:

Mike, KZ7O

Scott, KD7EKO

Todd, KW7TES

CLUB NEWS

Ham Shack Photos

Last month the unidentified Ham Shack Photo was ...

Rick Morrison W7RIK



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?



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

801.389.0690

So How About it?

Send me your Ham Shack Photos soon.

CLUB NEWS

DID YOU KNOW?

For you to receive OARC correspondences such as club emails, meeting notices and activity notices you must sign up at OARC Yahoo Group.

This is because OARC does not maintain a email CC: list but instead uses the OARC Yahoo Group as an email forwarding service to distribute our emails to members. You can be assured that you will not receive but a very few, but very important, email per month.

It is easy, just create a user name, and specify your email address. Be sure to choose the “email option” to receive OARC email notifications.

OARC has 159 Yahoo Group members. You should be one also.

At the bottom of the OARC home page is the OARC Yahoo Group icon that you can use to link to the OARC Yahoo Group .



[Join OARC Yahoo Group](#) Receive club related notices and information

By the Way ...

OARC membership is at an all time high (at least since 2004)

We currently have 123 Members enrolled.

WAY TO GO OARC !

CLUB NEWS

NEWS YOU CAN USE

AMAZON SMILE (<http://smile.amazon.com>)

A while back I posted in this newsletter a notice that Amazon would donate a portion of your purchase price to a charity of your choice. I chose ARRL as my non-profit charity. Maybe I should have chosen OgdenARC as my charity but even though we are a non-profit we are not a charity origination.

I just received the following notice from Amazon:

Your AmazonSmile Impact

Your orders that have supported charity : Your total orders : 20 orders

Remember, only purchases at smile.amazon.com or through the activated Amazon Shopping app support charity.

Every little bit counts

You have generated \$4.41 as of June 28, 2020

When millions of supporters shop at AmazonSmile, charitable donations quickly add up.

This is your quarterly AmazonSmile donation notification. Your charity, **ARRL Foundation**, recently received a quarterly donation of **\$314.80** thanks to customers shopping at smile.amazon.com.

To date, AmazonSmile has donated a total of: **\$815.13** to ARRL Foundation

73, Val Campbell K7HCP

CLUB NEWS

Repeat Article



WHAT DO YOU THINK?

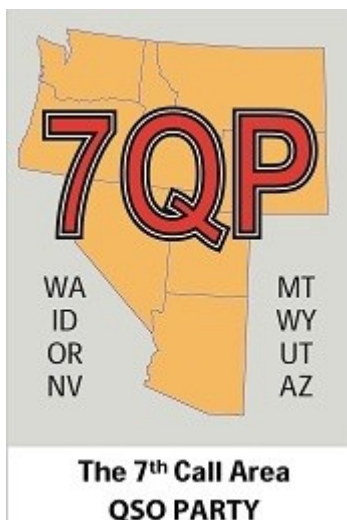
A while back Gil NG7IL designed an alternative club logo (shown below) for consideration to replace our current club logo (shown to the left).

We have yet to consider this action as a club so I suggest that the board and members give this some thought.

WHAT DO YOU THINK?



CLUB NEWS



The 15th annual 7QP was, by any measure, a great success!

PART 1 (Mike Fullmer KZ7O)

My experience with 7QP in 2020 By Mike Fullmer, KZ7O

K7HCP, Val, asked me to write up my experiences with 7QP this year. So, I am not bragging it up, but just doing what Val wanted me to do. This is to encourage others to participate in future years.

I have participated on and off with 7QP (7th call district QSO party) for a few years now. Last year I decided to make an adventure out of it and I went remote. My wife (Joan, N7OLZ) and myself went and operated in central Utah, in the middle of nowhere, just south of Price. It was fun enough that I decided to do it again this year. In February of this year, we talked about where to go this year. We kind of put it off a bit but I had started to think about Rich County. It is not as far away, and had not had anyone turn in a log for the county for more than 3 years. We even talked about a location in Rich County, at the Bear Lake Overlook, on the highway coming from Logan Canyon. This would have been a great place.

But then the COVID thing hit and changed everything. We did not go anywhere remote for 7QP because of it. So, since I had already kinda reserved the Saturday for this, I just kept it reserved and decided that if I was not going anywhere, I could at least operate from home. So, that is what I did.

The QSO party was the 1st Saturday in May. It started at 7am and continued till late Saturday night. I did not know how serious I would actually get, but just thought I would have a fun time. I decided to do it all phone (SSB), 100 watts. This is what they call low power. Many serious operators use high power, but I was not real serious, at least not at first. By the time the afternoon was over, I was more serious. I also did not use any internet assistance. The contest people call this “unassisted”. So, my official classification was “single operator, low power, unassisted, fixed location”. It is what most general hams would likely use.

I made my first 3 contacts on 80 meters right after 7am. That is all I could find on 80. So, I went to 40 meters. Here I found lots of stations. Late morning, I moved to 20 meters and made lots of contacts. Then later in the day, I moved back to 40 meters to finish. I figure I was on the air for 9 hours by the time I was wore out. This was 9pm Saturday night. I was still making lots of contacts, but at 301 contacts, I was done. I took several breaks during the day. I went out and worked in the garden. Joan and I went for a bike ride. But in between the other activities I was back on the air. It ended up being a very long radio day. I was the only operator and just kept going.

By the end of the day, I had made 301 contacts, as I mentioned. The 7QP contest group counted me for 296 contacts. 47 states. I missed Rhode Island, Delaware, and Hawaii.

For this “party” you can turn in your logs and the contest people will give you a grade, compared to others that turn in their logs. It is easy to turn in electronic logs. All of the logging software packages offer this.

Then low and behold, about a month later, I got an email from the contest people. It had two certificates in it. One was for 1st place for Weber County. I kinda expected this. I have a friend in Davis County, who is very serious about contests. I made a contact with him on 20 meters, late morning. He operated with another ham in Davis County and had 400 contacts, when I was at 150. They were serious. I just had fun. I also got a certificate for 3rd place, for the entire 7th call district for low power, single operator, unassisted, SSB. That one kind surprised me. The whole 7th call district? Wow.

So, I proved that a 100 watt radio, with persistence, can make a lot of contacts in one day. It makes for a long day, but if you want to get “worked all states” really fast, this is a way to do it. Only 3 more states and I would have had all 50. And it was fun, even if it was very tiring, by the end of the day. For a comparison, I was scored at 29,600 points. First place for this category was 127, 320 points.

Mike Fullmer, KZ7O

See certificates below

Certificate of Achievement

2020 7th Call Area QSO Party

Presented To

KZ7O

First Place

Weber County, Utah


Dick Frey, K4XU
Contest Manager

Sponsored by The Central Oregon DX Club

AOCC
CODXC
IDX
SNARS
UDXA
RCR



Certificate of Achievement

2020 7th Call Area QSO Party

Presented To

KZ7O

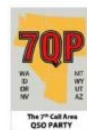
Third Place

7th-Area Single-Op Low-Power Phone

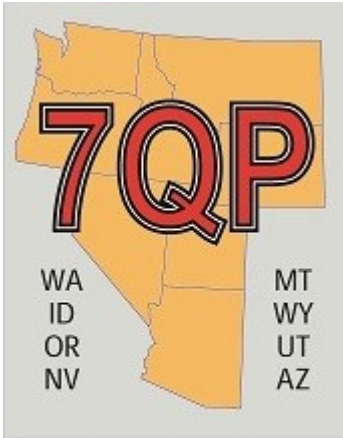

Dick Frey, K4XU
Contest Manager

Sponsored by The Central Oregon DX Club

AOCC
CODXC
IDX
SNARS
UDXA
RCR



CLUB NEWS



**The 7th Call Area
QSO PARTY**

The 15th annual 7QP was, by any measure, a great success!

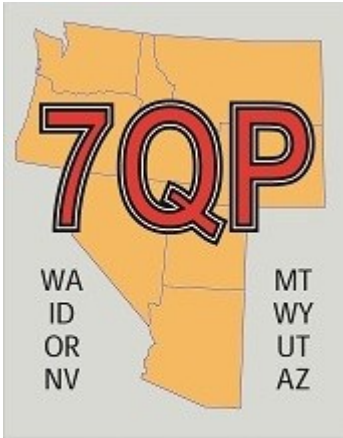
PART 2a (from Gil NG7IL)

This is how I did, only two other operators from Utah:

7th Area Single-Op Low CW

Call	Score	Mlt	CW QSO	PH QSO	DIG QSO	QTH	Operators,...
----	-----	---	---	---	---	---	-----
K7HBN	102816	56	612	0	0	WASNO	
W7AI	93696	64	488	0	0	AZPMA	W8TK
K7PJT	81432	52	522	0	0	ORHOO	
KA7PNH	65052	52	417	0	0	WYCON	
K7AZT	64713	53	407	0	0	AZPMA	
W7CTA	45864	52	294	0	0	ORDES	K2DI @WS7N
W7UDH	40896	48	284	0	0	WAKNG	
KU7K	35850	50	239	0	0	ORKLA	
AB7RW	34884	51	228	0	0	WACLR	
N7RD	32928	49	224	0	0	AZMCP	
W7POE	32292	39	276	0	0	WAKNG	
WB7BWZ	27600	46	200	0	0	MTYEL	
N7IR	23760	44	180	0	0	AZMCP	
WB2AWQ	17784	38	156	0	0	NVWAS	
WA7NCL	13671	31	147	0	0	WAKNG	
KF7GGN	10920	26	140	0	0	ORBEN	
W7GF	8073	23	117	0	0	ORLAN	
NG7IL	5928	19	104	0	0	UTDAV	
KE7DZ	4914	18	91	0	0	WAKTP	
KC7YE	4416	23	64	0	0	WASNO	
K7RR	4320	24	60	0	0	WAKTP	
UT7D	4320	20	70	0	0	WAKNG	

CLUB NEWS



**The 7th Call Area
QSO PARTY**

The 15th annual 7QP was, by any measure,
a great success!

PART 2b (from Gil NG7IL)

Looks like Mike kicked butt! #1 for Utah, #3 in his category.

7th Area Single-Op Low Phone

Call	Score	Mlt	CW QSO	PH QSO	DIG QSO	QTH	Operators,..
KK7AC	127320	60	0	1061	0	AZAPH	
WB7GR	30420	45	0	338	0	WYLAR	
KZ7O	29600	50	0	296	0	UTWEB	
WA7JAW	19456	32	0	304	0	ORCOO	
KA7X	19350	45	0	215	0	ORKLA	
N7JND	15808	38	0	208	0	AZPMA	
N7LD	8502	39	0	109	0	NVCLA	
NF7E	8400	35	0	120	0	AZCNO	
KD7IIW	7536	24	0	157	0	IDFRA	
K4LD	6936	34	0	102	0	NVCLA	
KD7RUS	6634	31	0	107	0	WACLR	
KM6XX	6624	23	0	144	0	AZYVP	
W7EDC	5820	30	0	97	0	ORCLK	
NS7U	5460	26	0	105	0	WACLR	
AG7QL	5400	25	0	108	0	WAPIE	
NX7W	4554	23	0	99	0	MTGAL	

HOBBY NEWS

Interesting license plates

Not necessarily a ham radio related license plate.....or is it? How about our virtual club meeting because of the pandemic?



The following one could be on a car owned by an engineer from Boeing Aircraft Company who is great at engineering, but weak on spelling. It also looks that he or she likes fishing.



TNX Kent, WA7AHY

HOBBY NEWS

Ham Radio Technician Course Announcement

The Davis County Amateur Radio Club is pleased to announce that they will be sponsoring a Technician Licensing Course.

It will be held at Layton City Office 437 Wasatch Dr., Layton 84041.

There is no cost to take the course. Pre-registration is required due to social distancing limitations.

We will be using The Technician License Course (2018-2022 Pool) book by Stu Turner. The books sell for \$22.95 plus shipping if you order them online. The Davis County Amateur Radio Club has some available for \$20.00 at the class.

The course starts on 29 Jul 2020 every Wednesday evening from 6:00 – 8:30 PM thru 26 Aug 2020.

For more information contact Spencer Mark at ae7io@arrl.net or 801-564-8054.

HOBBY NEWS

RADIO RELAY INTERNATIONAL

RRI Training Broadcast Schedule

I received this announcement from the SKCC group email digest.

I thought it was very interesting and more real world than the ARRL broadcasts.

Broadcast begins in July.

<http://ogdenarc.org/documents/rri.pdf>

Gil NG7IL

I found a great tutorial on the decibel on the ARRL website.

The "dB" is quite useful.

<http://ogdenarc.org/downloads/db.pdf>

Enjoy,

73 de Gil NG7IL

FEATURE ARTICLE

by Kent Gardner WA7AHY



Field Day Flags

As expressed by one of our club members, Joe Taranto, K7CJT, you aren't camping until the flags are flying.

Upon arrival at the 2020 field day site, the first thing I noticed was a travel trailer flying the Flag of our United States and the flag of the United States Air Force.



It immediately reminded me of the article I wrote for the July 2018 club newsletter.



Joe has a strong sense of patriotism that he came by in his life experiences. He is a retired Chief Master Sergeant from the Air Force. He was an air traffic controller and actually still is by working as a civilian in the Hill Air Force air traffic control tower.

If you remember, he was our speaker at the January 2020 club meeting. He told us of his experiences with 2-meter and 440 MHz communications using simplex and many repeaters during his travels. He and his wife Jody, took their trailer and went back to North Carolina. It wasn't as easy as you would expect. He had some interesting experiences with repeater manuals being out of date, reprogramming with "Spark" and talking with fun people, some with regional accents.



July 2020

... continued ...

The trailer is equipped with a 4,000 watts peak motor generator attached to his rear bumper. He uses it to power his air conditioner if they are cold camping. He also has an array of two 100-watt solar panels on the roof that power three 6-volt batteries through a charge controller.

The staff holding up the flags is, actually, a real flagpole that he has modified. The saucer-like feature at the top, seen better in the initial photo, looks like a lightning ball arrestor, but it is just there for looks. He has a second pole shown below that holds up two vertical J-Pole twin-lead VHF and UHF antennas.

It is shown in it's stowed position. This setup is a work in progress in that the "T" clamped to the bumper tends to get distorted. Joe said he is still working that out.



As we talked, I told him my experience in the Air Force when I was a green Lieutenant assigned as the Commander of the Armed Forces Radio and Television Service in Turkey. There, a Senior Master Sergeant took me under his “wing” and shouldered a lot of the responsibility and taught me many important skills. Joe just smiled and said “We just love our Lieutenants”.

TNX

Kent, WA7AHY

GUEST ARTICLE

by Dan KB6NU



Securing PowerPole connectors

In preparation for this year's Field Day, I made a bunch of cables with PowerPole connectors to connect the solar panel, charge controller and batteries that I used. If you're not familiar with PowerPoles, you might want to [check out this YouTube video](#). They're really great connectors, and have become the DC connector of choice for many hams. PowerPoles have become ubiquitous in amateur radio stations.



When I make up PowerPole cables, I normally don't bother trying to secure the two halves together, especially if you're using some decently heavy gauge wire. They fit together pretty tightly, and don't come apart easily. Even so, I think securing them together is a good idea. You can buy a little roll pin to insert between the red and black housings that is supposed to prevent them from coming apart, but many folks complain that the pin has a tendency to fall out. This not only defeats the purpose, but could also damage your equipment.

Securing them is the right thing to do, though, and I recently came across some great suggestions on how to do this in the daily digest that I receive from the [Elecraft-KX mailing list](#). Here are the best tips from the thread, [Securing Anderson Power Poles](#):

Rudy K8SWD: You can thermally bond the red and black housings with a soldering iron like you are making little welds on both sides. Permanent (mostly) but it works better than the roll pins. Just clean the tip really good before soldering!

Dave K0CDA: [Anderson] also make connectors that are thermally bonded together in pairs. They do NOT come apart.

Don W3FPR: I use a drop of Super Glue on the junction of the plastic pieces. Warning – that glue grabs quickly, so slide the 2 pieces only enough to start the assembly, then apply the drop of glue and quickly finish sliding them together. I have never had ones prepared like that come apart, and I don't use roll pins. I will say one more thing – use only the genuine APPs. I have seen some knockoffs that do not mate well.

Greg KC9NRO: Take a hot soldering iron. Wipe the tip with sponge. Run the tip down both side of APP bonding the black and red sides together. Clean soldering iron tip and apply some solder to tip. That's how I roll. Never comes apart.

Mike AI4NS: PVC cement will soften the plastic enough to bond them together. You can also get plastic welding rods, such as [Daindy Plastic Welding Rods](#). Chuck a rod in a Dremel and weld them together. I have made plastic boxes and panels using this method.

Jack WD4E: Snip the cotton end off a Q-tip, cutting at an angle. Insert into hole made for roll pin, cut off excess, save remainder of Q-tip for next requirement.

Troy K4JDA: 2.5mm screws work well, stay in, and are easily removable.

I posted these suggestions to [my blog](#) and got a few more great suggestions:

Tom KB8UUZ: Fat tooth picks also work great. Jam it in, break it off.

Bruce NONHP: I use MEK (Methyl Ethyl Ketone) replacement to clean my circuit boards after soldering. A single drop of MEK on the junction between the two halves of the PowerPole shell will fuse them. It can be broken with a sharp tap but not accidentally. It will set and dry in seconds and should be applied after the shell pieces are put together.

I think these are all great suggestions. I think that I'm going to try the cotton swab method. While reading them, another thought occurred to me. I haven't tried this yet, but I'm thinking a little drop of hot glue on the roll-pin hole might work, too.

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Dan Romanchik, KB6NU, is the author of the KB6NU amateur radio blog ([KB6NU.Com](#)), the "No Nonsense" amateur radio license study guides ([KB6NU.Com/study-guides/](#)), and often appears on the ICQPodcast ([icqpodcast.com](#)). When he's not thinking up new ways to keep his PowerPoles together, he likes to teach ham radio classes and operate CW on the HF bands.



New Extra Class License Manual and Extra Q&A Now Available

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[The ARRL Extra Class License Manual for Ham Radio](#) is your ticket to every privilege granted to amateur radio operators -- all frequencies, operating modes, and power levels. It has all the questions and answers, with detailed explanations, for examinations taken between July 1, 2020, and June 30, 2024.

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To upgrade to Amateur Extra class, you must already hold a General-class license (or have recently passed all of the exam elements required for a General-class license).

[The ARRL Extra Class License Manual](#) new 12th edition spiral bound (ARRL Item No. 1311, ISBN: 978-1-62595-131-1, \$32.95 retail) and [ARRL's Extra Q&A](#) new 5th edition (ARRL Item No. 1335, ISBN: 978-1-62595-133-5, \$19.95 retail) are now shipping. Order from the [ARRL Store](#), or find an [ARRL publication dealer](#). For additional questions or ordering, call 860-594-0355 (toll-free in the US, 888-277-5289). Both [The ARRL Extra Class License Manual](#) and [ARRL's Extra Q&A](#) are available as an e-book for the Amazon Kindle.



Researchers Use 200 Years of Sunspot Observations to Create "Sun Clock"

Researchers in the UK and the US have developed a new "sun clock" that quantifies extreme space weather and pinpoints distinct on/off times of high solar activity and space weather. The sun clock will assist in planning to protect space and ground-based infrastructure that is sensitive to space weather. The [study](#), "Quantifying the solar cycle modulation of extreme space weather," was published in *Geophysical Research Letters*. It explains that the sun clock uses the daily sunspot number record available since 1818 to map solar activity over 18 solar cycles to a standardized 11-year cycle or "clock."

"Extreme space weather events can significantly impact systems such as satellites, communications systems, power distribution, and aviation," a Warwick University [news release](#) said, noting that these events are driven by solar activity. "By devising a new, regular 'sun clock', researchers have found that the switch on-and-off of periods of high solar activity is quite sharp."

The researchers' analysis shows that while extreme events can happen at any time, they are much less likely to occur during quiet intervals. The sun clock is aimed at helping scientists to determine more precisely when the risk for solar storms is highest and to plan the impact of space weather on space infrastructure. This gains importance as Solar Cycle 25 is imminent.

According to the researchers, no two solar cycles are the same, but using a mathematical technique known as the Hilbert transform, they were able to standardize the solar cycle for the first time. The clock revealed sharp transitions between quiet and active periods of solar activity.

"Once the clock is constructed from sunspot observations, it can be used to order observations of solar activity and space weather," the university said. This includes the occurrence of solar flares and the 10.7-centimeter solar flux that tracks solar coronal activity.

The researchers determined that once past on/off times are obtained from the clock, the occurrence rate of extreme events when the sun is active or quiet can be calculated.

"Scientists spend their lives trying to read the book of nature," lead author and Professor Sandra Chapman of the University of Warwick's Centre for Fusion, Space, and Astrophysics, said. "Sometimes, we create a new way to transform the data, and what appeared to be messy and complicated is suddenly beautifully simple."



Club Swapmeet



“SALE” or “WANTED” ITEMS NEEDED

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

Visit OgdenARC.org then click O-Bay Swap

FEATURED ITEMS

SWAP ITEM #208



O-Bay items for sale



(Mary <Hazard> Jewett - W7SU)



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

Visit OgdenARC.org then click O-Bay Swap

FEATURED ITEMS

SWAP ITEM # 207

FOR FREE:

MFJ Deluxe Electronic Keyer, Model MFJ-8043 IC (used).

Still works, but needs a 9 volt battery.

Free, that \$0 to the first person who comes and picks it up and who really wants to learn Morse code.



ASKING PRICE: \$0 FREE

CONTACT: Gene, WB7RLX 801 540-4907

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.

AC7GV - JOHN

K7YZU - BRYCE

KA7TYX - MAX

KD7RPT – SPARKY

KF6CCK – DAVID

KF7HNU – RALPH

KT7JIM – JIM

K8RYN - KATHY

NOINC - LONNIE

W0OSI - RON

OARC YAHOO GROUP




Did you know that OARC has a Yahoo Group?

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: **-146.82 (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 (*)	123.0	Mt Ogden
146.820-	OARC (*) "Talk-in"	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		1 st Saturday 10:00 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
UVarc	https://uvarc.club	1 st 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	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)
WDArc	westdesertarc.org/	1 st Tuesday 7:00 pm	Tooele County Courthouse Tooele Utah
WsuArc	https://groups.google.com/forum/#!forum/wsuarc	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	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 @ 7:00 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 @ 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 @ 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: Dave Mamanakis KD7GR

Vice Pres: Mike Taylor KE7NQH

Secretary: Barbara Siddle WB7FWW

Treasurer: J. Siddle KG7CJN

Program Director:
Gil Leonard NG7IL

Activity Director:
Bob Smith KG7EIZ

"WATTS NEWS" e-Magazine

NL Editor: Val Campbell K7HCP

"OARC" web site

Webmaster: Val Campbell K7HCP

OTHER CLUB APPOINTMENTS

VE Liaison: 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/Librarian: Kent Gardner
WA7AHY

Equipment Manager: Val Campbell K7HCP

Club Call Sign Trustee: Larry Griffin AD7GL

Club Elmer: Stan Sjol W0KP

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

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