



WATTS NEWS



The Best of Amateur Radio

OARC e-Magazine

www.OgdenArc.org

SEPTEMBER 2016

Next Club Meeting/Activity

Joint Swap Meet



Jason Miles KE7IET
President



Mike Taylor KE7NQH
Vice President



Ceva Cottrell KE7IEV
Secretary



Jerry Cottrell KG7IGW
Treasurer



Mike Neal K7MLN
Program Director



Dave Mamanakis KD7GR
Activity Director



Val Campbell K7HCP
Webmaster/NL Editor

PREVIOUS CLUB MEETING/ACTIVITY

OARC Steak Fry Event

Date: 3rd Saturday 20 August 2016

Time: 5:00 PM

Location: Marriott Park - 1065 S 1200 W

*** Free Steaks for all Paid-up Members ***

Sign up your spouse for only \$10 plus get a free steak

NEXT CLUB MEETING/ACTIVITY

Joint DCarc & Oarc Swap Meet

3rd Saturday 17 September 2016

Davis County Utah

Located at the Bowery 400 N 100 W Bountiful.

Begins at 0800 to about 1100.

PREVIOUS MEETINGS PICS

Photos by ... Ceva Cottrell KE7IEV



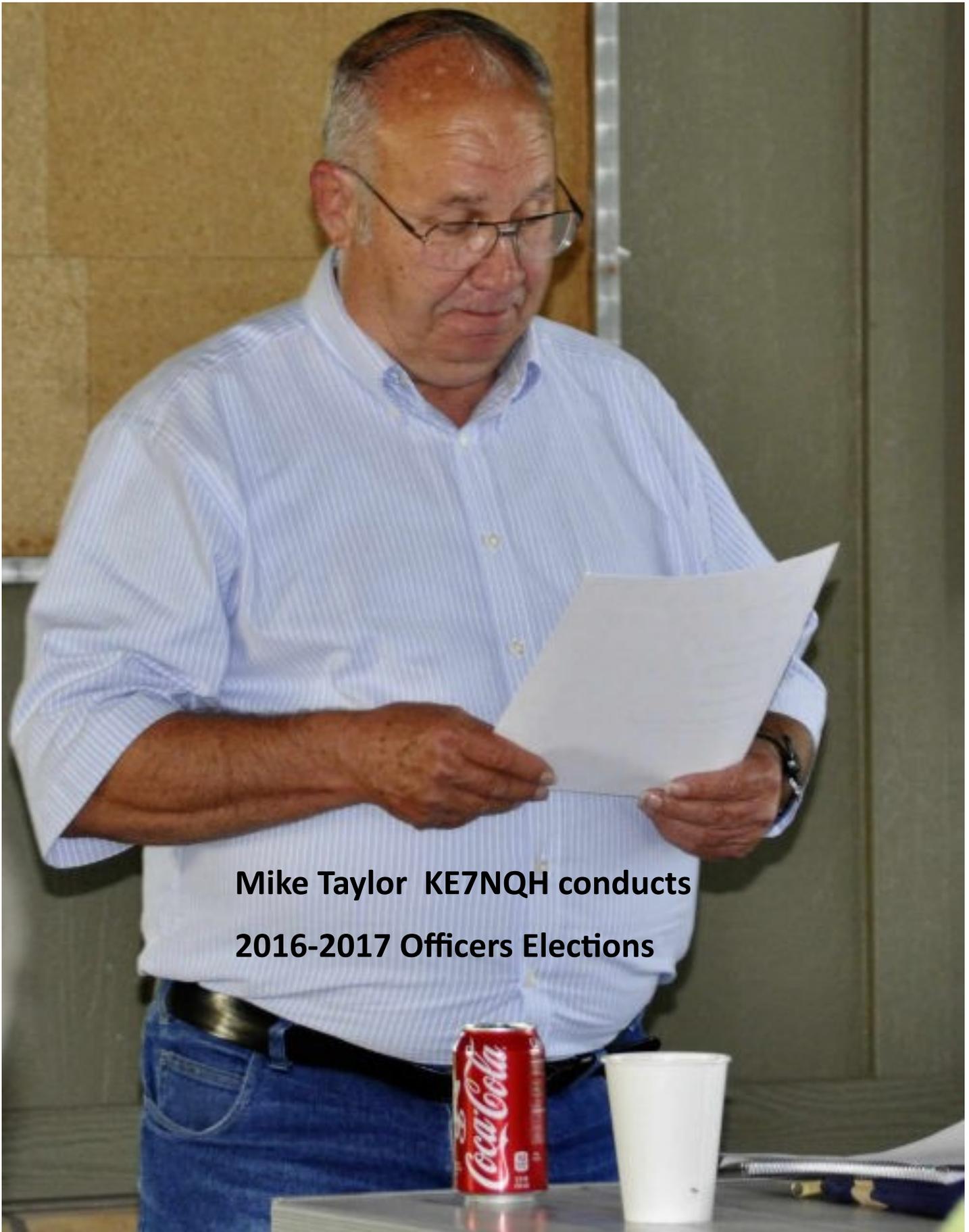
Our “YL’s” prepare the kitchen for the Steak Fry feast!



Out going OARC President Gil Leonard NG7IL finds the perfect (free) steak for himself.



Stan, are you sure that you really want to sign up to be a member for another year?



**Mike Taylor KE7NQH conducts
2016-2017 Officers Elections**



Stan Sjol W0KP conducts the annual club auction



Kent Gardner WA7AHY—club Historian, looks through years of OARC club history documents that he has archived for our club.

Did you know that OARC was originally established in 1921, 95 years ago?

2016 Steak Fry Meeting

Door Prize Winner



Chris Clement - K7CTC



Yaesu FTM-3200 DR 2m Transceiver



and next years “Door Prize” is ... (the little one)

From the Shack of KE7IET



Jason Miles KE7IET

A while ago, I heard the suggestion that, if you want someone to leave your amateur radio club, make that person president of the club. I hope that wasn't the club's intention this year. I also hope that I can live up to the responsibility.

Let me express my gratitude to Gil Leonard NG7IL for his service as president. I certainly learned from his leadership. In each of the two years he served, he set a goal for the club to meet. In the first year, we had the goal to increase membership to 100. In the second year, we wanted to encourage license upgrades from technician to general and get people interested in HF. I think we succeeded with both goals. Much of that success can be attributed to Gil's leadership.

I would also like to thank those who are willing to serve on the board of directors this year. These are volunteer positions, where the only pay is the experience. I appreciate the commitment, and I look forward to working together.

If you'll pardon the indulgence, let me introduce myself. I am married to my lovely wife Andrea, and we have two girls and two boys ranging in age from 8 years old to a few weeks old. I grew up in Roy, and, after 13 years in South Ogden, we moved back to Roy last year. I was first licensed in 2006 as part of a class Kent Gardner WA7AHY organized in South Ogden. However, because of lack of funds, I didn't really get involved with amateur radio until around 2011. I finally purchased a used Radio Shack HTX-212 2m monoband mobile, which was a great rig. In 2012, I volunteered to help with the VE testing computers, and I've been involved with the club since then.

Continued ...

Returning to the theme of goals, I'd like to propose the goal of increasing activity in the club. Our club sponsors two main operating events per year: the W7G special event at the Golden Spike National Historic Site and Field Day. It seems like we've had difficulty getting people to participate lately. Is there something we can do to spark more interest? I'm open to suggestion. Are there other activities we could consider?

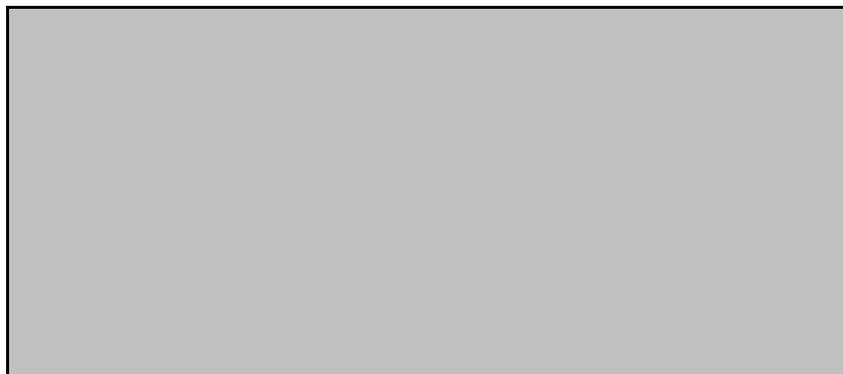
One of my interests in this hobby is building things. I have a list of projects a mile long and boxes of unused parts to go with it. I've considered documenting some of these projects in the club's newsletter. I recently found the "QRP School" YouTube channel of Cliff Batson N4CCB (<https://www.youtube.com/channel/UCEINppMdTOP8apApXXhZLCQ>). In one of his videos, he mentioned using a golf ball with an eye screw, fishing swivel, and fishing line to get antenna wire into a tree. I doubt this is a new idea, but it seems simple enough. Drill a suitable pilot hole in the golf ball and put the eye screw into it. Tie the fishing line to the swivel, then hook the swivel onto the eye screw. Throw the ball over the desired tree branch, then use the fishing line to hoist your antenna wire. I want to try it, and I'll report on it next month.

I'd also like to report on my failures. A while back, I bought a Kenwood TS-450S from our club's former contact VE, Mary Jewett W7UE. She took good care of it, and it's been a great rig. Lately, I've been using it with an 80m doublet antenna (fed with 450 ohm ladder line). Multiband operation with such a configuration requires a tuner, and, up until recently, I've been trying a couple of MFJ manual antenna tuners. I knew the TS-450S had an automatic internal antenna tuner option, but, for whatever reason, it never occurred to me that mine already had it. In fact, I looked at prices to buy one. Anyway, one day, the light came on, and I finally checked. Sure enough, removing the rig's top cover revealed a fully functional tuner. Once again, I learned to question my assumptions.

73 from Jason Miles KE7IET



OARC COMING EVENTS



Joint Swap Meet

3rd Saturday 17 September 2016

Weber Co VE Test Session

1st Wednesday 05 October 2016

OARC Family Christmas Dinner

3rd Saturday 17 December 2016



CLUB NEWS

DCarc/Oarc Joint Swapmeet 3rd Saturday September 17th

Free Ham Radio Swapmeet on September 17th located at the Bowery 400 N 100 W Bountiful. Begins at 0800 to about 1100.

CLUB NEWS

HAM and EGGS Net

Wednesday Evenings at 7:30 PM Mountain Time

Mt Ogden 70 cm repeater 448.600 Mhz (-5 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: Mike Neal K7MLN@hotmail.com

HOBBY NEWS

Technician Class Announcement

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

It will be held in the lower level of the Layton City building located at 437 N Wasatch Drive, Layton, Utah, 84041.

There is no cost to take the class.

We will be using the Technician License Course book by Stu Turner. The books sell for \$21.95 plus shipping if you order them online but the Davis County Amateur Radio Club is selling them for only \$20.00.

The class starts on 10 August 2016 every Wednesday evening from 6:00 – 8:30 PM thru 28 September 2016.

For more information or to buy a book contact Spencer Mark at ae7io@arrl.net.



Club Swapmeet



“SALE” or “WANTED” ITEMS NEEDED

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

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

FEATURED ITEMS



SWAP ITEM # 173

ITEM: Kenwood TS-530 SP/D Transceiver

Great condition.

PRICE: \$ 250

CONTACT: Randy Thompson KA7ZLU, rjthomps@q.com

Home: (801) 782-2263 Cell: (801) 645-3939

NOTICE

FREE on-line, local swap - help spread the word

<http://www.pocatelloarc.org/swap/>



Club Swapmeet



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FEATURED ITEMS

SWAP ITEM # 171

**ITEM: Hy-Gain AV-14AVQ Vertical 4 band HF Antenna
(10m/15m/20m/40m)**

Antenna was used ground-mounted with 4 radials for two years.

Value new = \$189

Good stealth antenna as it is only 18 ft. in length.

It is complete in the original factory box and includes factory manual.

PRICE: \$ 80 (firm), cash only

CONTACT: Larry Griffin AD7GL, 801-388-1894, ad7glqst@gmail.com

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Club Swapmeet



“SALE” or “WANTED” ITEMS NEEDED

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

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FEATURED ITEMS

SWAP ITEM # 174

FOR SALE: RFS 1/2" Heliax

RFS 1/2" Heliax new on the roll for \$1.00 a foot. We have 2000 Ft available and will cut to your length.

This is RFS Cellflex LCF12-50J Heliax cable. It is similar to Andrew LDF4-50A 1/2" Heliax and the connectors fit both cables.

We don't have connectors for this cable but we can show you where you get get them from a number of suppliers starting at \$5.00 each.

PRICE: \$ 1 / foot

CONTACT: Mel Parkes, NM7P at 801-673-6116 or John Lloyd, K7JL at 801-943-8830 - Payment via PayPal at <http://www.utahvhfs.org/>

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<http://www.pocatelloarc.org/swap/>

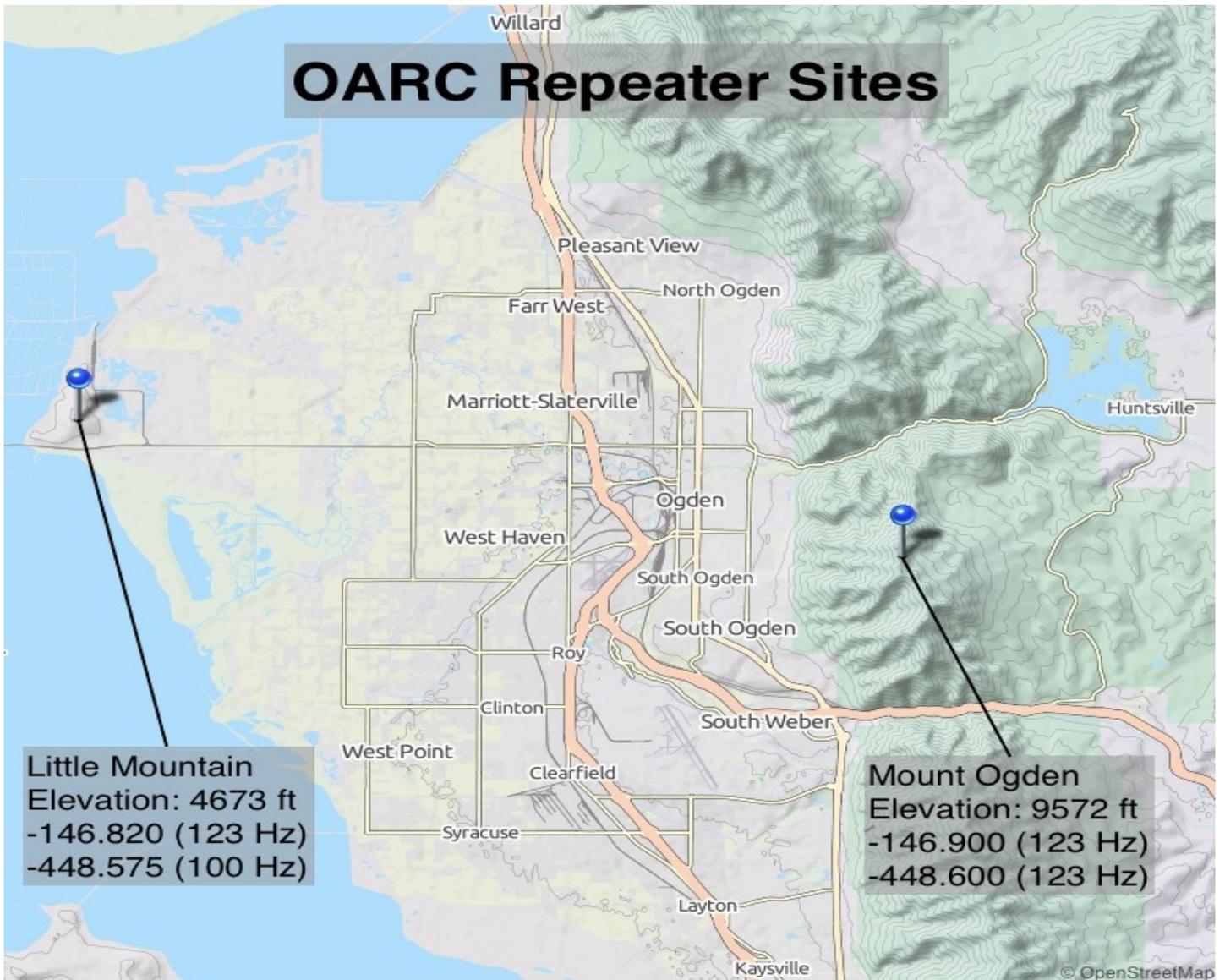
Unclaimed Club Badges

Our club treasurer is worried about several of you that have not picked up your new pre-paid OARC club badge. Your badge doesn't look quite like this one because it has your call sign and your name on it but we are quite sure you will enjoy yours just the same. You can claim your badge at any future club function, meeting, activity or event or contact our club badge czar Jerry KG7IGW.



KD7RPT, Sparky
KF7HNU, Ralph
KG7WXB, Jared
KT7JIM, Jim

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.

**More to come ...
following the next 3 pages of commercials.**

Please stay tuned.

OARC YAHOO GROUP



Did you know that OARC has a Yahoo Group?

We occasionally communicate with our OARC members via the Yahoo Group. Receive 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 top of the club website home page and then follow the Yahoo Group instructions to create yourself a user ID and password.

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 in advance for each badge ordered and specify Call Sign and First Name. Contact webmaster or any club officer via email or contact the club treasurer at the next club meeting.

For additional information see club website left side menu and click “Join” to fill out a club application form to order a club badge.

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

Renew your membership now!

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.

Joining is easy. Come to a club meeting or fill out an application form from the club website (click "Join" from the left side main menu). Instructions for mailing on the form.

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.



This is totally unbelievable!

FCC Denies Petition for Consideration in Vanity Call Sign Dispute



An Arizona radio amateur has been unsuccessful in convincing the FCC to take a 1 × 2 vanity call sign away from its present holder and grant it to him. In the process, Joshua Babb, K6FZ, may have learned not to rely on informal advice from FCC staffers. Babb, of Maricopa, Arizona, had been trying to get the initial-suffix call sign W3JB since 2014, and he was briefly successful. The prior holder of W3JB, John K. Birch, had died, and the 2-year waiting period was set to end on August 18, 2014. Babb applied for W3JB in July 2014, however, claiming an exemption to the 2-year waiting period on grounds that he was the deceased licensee's nephew, and the FCC granted it.

Subsequently pressed to document that relationship, Babb indicated that Birch actually had been his great-great uncle, the FCC recounted in an *Order on Reconsideration* released on May 25 — a relationship that did not qualify for an exemption, and the FCC proposed to rescind the grant of W3JB. In September 2015, though, Babb filed to swap W3JB for the available K6FZ, which was granted. Under Commission rules, when a call sign is granted in error after the 2-year waiting period ends, it becomes unavailable for 30 days after the erroneous grant is rescinded.

Babb sought clarification of the W3JB availability date from an FCC staff member, who calculated that it was November 2, 2015. Babb filed two preference-list applications for W3JB on that date, as well as one on November 3 and another on November 5. W3JB instead went to Scott Phillips of Plano, Texas, who had filed a competing November 3 application, granted through the FCC's "standard lottery process." The FCC staffer later informed Babb that November 3 actually was the correct date. The FCC turned away Babb's subsequent *Petition for Reconsideration* of the grant to Phillips, saying that its Universal Licensing System (ULS) had processed the applications correctly.

"[E]rroneous staff advice is not grounds for reconsideration," the FCC said in its denial *Order*. "Licensees are obligated to know the Commission's rules. It is well established that an applicant acts on staff advice at his own risk." In any case, the FCC pointed out, Babb did file one application on the correct day.



Three Companies Agree to Plead Guilty for Fixing Prices of Electrolytic Capacitors

The US Department of Justice announced this week that three companies have agreed to plead guilty for their roles in a conspiracy to fix prices for electrolytic capacitors sold to customers in the US and elsewhere. The companies are Rubycon Corporation, Elna Co Ltd, and Holy Stone Holdings Co Ltd.

"The Antitrust Division has now charged five companies and one individual for their participation in this international price-fixing conspiracy," Deputy Assistant Attorney General Brent Snyder of the Justice Department's Antitrust Division, said in an August 23 Justice Department [news release](#). "The electrolytic capacitors conspiracy affected millions of American consumers who use electronic devices containing capacitors every day."

The division filed one-count felony charges against each of the three companies in US District Court in San Francisco. In addition to pleading guilty to the charges against them, each company has agreed to pay a criminal fine and to cooperate with the Division's ongoing investigation. The plea agreements are subject to court approval.

NEC TOKIN Corp and Hitachi Chemical Co Ltd already pleaded guilty earlier to participating in the same worldwide conspiracy.

FEATURE ARTICLE

By Mike Fullmer, KZ7O

Teaching a Morse Code Class to Jr High students

In the middle of November I was contacted by my sister in law. She knew I was an active ham radio operator and she suspected that I knew Morse code. She is involved with the administration of a Charter School in the area, Venture Academy. She had been conversing with a math teacher in the school about a new elective class that he was teaching to Jr High students. The class is "Codes and Ciphers". The teacher had been teaching his class about different codes and ciphers. He had been speaking a foreign language and no one else around speaks it, it is like a code or cipher because no one else can understand it. During this class, Morse code came up. He knew it was a "code" but did not know a lot about it, other than what he read on the internet. He began to wonder if there was anyone around that actually knew it. Well, my sister in law told the math teacher that she knew just who to ask. And guess who that was?



She put me in touch with the teacher and arrangements were made to actually go to his class and demonstrate Morse code. So, I visited his class on Dec 9th and 10th with Morse code equipment. This class had about 20 students in it. They were a combination of 7th, 8th, and 9th graders. The teacher had been teaching them the basics of Morse code and some of them actually began to understand it. They had practiced at a very slow rate (2-3 wpm) and were actually beginning to catch a few letters. They were very excited to actually have someone come into their class that actually knew Morse code and could talk about it.

On the first day I took an old click clack Morse code relay and a more modern Morse code oscillator. I let them hear what it sounded like in the old telegraph days then let them hear the modern Morse code tones. Many of them came up and tried sending some simple words. They did ok, but had a hard time getting the spacing right between a dit and dah. This demonstration took up the 50 minute class period and we were done.

continued

The second day, I took an actual HF rig and hooked up a small wire antenna and let them listen to real Morse code being transmitted over the air. It was just my luck that W1AW was sending 5wpm code practice on 20 meters that lasted for half of the class. There were a few other stations on as well that we were able to hear on 20m. After we listened to real code, I demonstrated what a keyer is. I hooked up my paddle and showed them that this little device fixes the spacing problem with the dits and dahs. I turned the speed down as low as the rig goes (10wpm) and let them practice with it. Of course, I had the transmitter turned off so they just heard the side tone. I also had the regular key connected. Then the teacher had them get into groups and each group was to make up a short 5 word message to send to the rest of the class. They had to write down the dits and dahs on a paper to send the message because they did not know the letters good enough. Each group sent their message. Almost all of them wanted to use the keyer. They thought that was a lot easier than the old standard key. Some of them really got into it and were very good at it. Others struggled a bit. But they all seemed to enjoy it.

I did get a chance to talk about ham radio and what it is, which was good, because they had questions about why I knew it and what I did with it.

It was a fun experience and maybe it will plant a seed into someone's mind and when they get older and hear about ham radio again they will look it up. I learned that teen agers can learn really fast. I would guess that if some of them spent a couple of weeks practicing, they would be able to pass the old 5wpm test. These were smart kids.

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 (*)	123.0	Mt Ogden
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	3 rd Saturday 09:00 am	Check OARC web site ...
WC ARES	ogdenarc.org/ join.html#ares	2 nd Thursday 06:30 pm	Weber Co. Library Ogden Utah
WC Sheriff Comm-O		1 st Saturday 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
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 @ 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 @ 7:30 PM	OARC—Ham & Eggs Net	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 @ 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: Jason Miles KE7IET

Vice Pres: Mike Taylor KE7NQH

Secretary: Ceva Cottrell KE7IEV

Treasurer: Jerry Cottrell KG7IGW

Program Director:
Mike Neal K7MLN

Activity Director:
Dave Mamanakis KD7GR

"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: Ceva Cottrell KE7IEV

QSL Manager: Ceva Cottrell KE7IEV

Historian/Librarian: Kent Gardner
WA7AHY

Equipment Manager: Val Campbell K7HCP

Club Call Sign Trustee: Larry Griffin AD7GL

Advisors: Stan Sjol W0KP
Mike Fullmer KZ7O
Kent Gardner WA7AHY
Kim Owen KO7U
Larry Griffin AD7GL
Gil Leonard NG7IL

73 es cul de W7SU

www.OgdenArc.org