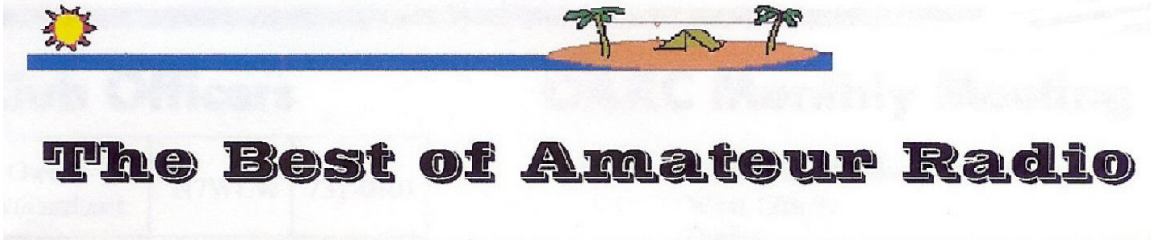




WATTS NEWS



Welcome to the OARC e-Magazine

www.OgdenArc.org

APRIL 2006

Next Club Meeting

4th Saturday April 22, 2006

Topic: Northern Utah Hamfest



Mike Fullmer KZ7O
President



Kent Gardner WA7AHY
Vice President



Chad Roylance KD7WQS
Secretary



Jim Southwick N7JS
Treasurer



Charles Horn KD7SST
Director #1



James Clarke KD7SWL
Director #2



Gary Liptrot N7ZI
Past President - Advisor



Val Campbell K7HCP
Webmaster/Editor

PREVIOUS CLUB MEETING

3rd Saturday March 18, 2006

We had a respectable 31 in attendance for this meeting and there were plenty of pastries and juice for all. Mike Fullmer KZ7O, our club president, opened the meeting with several announcements.

- **NUHF - Northern Utah Hamfest - Saturday April 22, 2006 (8:00am-1:00pm)**
QRP construction project/kits
- **Technician Class License Class - Wednesday evenings April 26 -May 31**
VE Test Session - June 7th
- **Area 7 QSO Party - Saturday May 6, 2006 (1:00pm - 4:00pm)**
Earle Sanders NT7Y QTH (check web site for details and map)
- WIMU - 1st weekend in August 2006
Jackson Wyoming
- Free Tower - Cliff Peterson W7JVU (sk)
Built in 1947, Must take away

Kent Gardner W7AHY, our club vice president, presented us with a show and tell of his vintage Western Union Telegraph key and sounder. Be sure to read more about this in our Feature Article at the end of this newsletter.

Congratulations to the following Door prize winners this month:

- KE7ELF - Beth
- KD7PAW - Jeff
- KZ7O - Mike
- AC7QO - David
- KD7SST - Charles
- KA7ZLU - Randy
- AD7HI - Dan
- N7KH - Kay
- KE7FYO - Tim
- KD7SWL - James
- N7QWS - Andy

Our feature topic for this months meeting was the long awaited presentation by the members of the Utah DX association Dennis Utley AF7Y and Darryl Hazelgren K7UT. They presented the basics of having fun with DX.

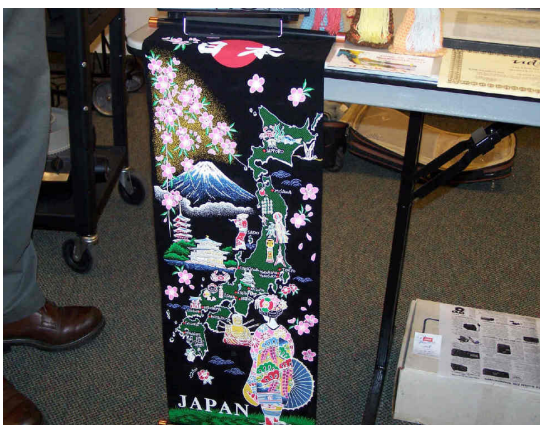
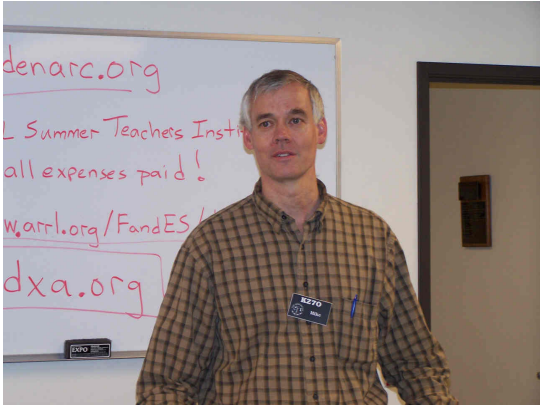
The program was presented by experienced DXers from the newly reorganized Utah DX Association, Dennis Utley AF7Y and Darryl Hazelgren K7UT. The presentation was a very educational and entertaining program. For those of you that may have missed the presentation, we present the following summary.

Since the earliest days of radio, people have been asking the question "How far will it go?" Trying to contact people at great distance by radio continues to hold great fascination to operators of the present day. The name "DX," derived from the CW abbreviation for "distance," is the name given to the hobby of contacting operators in foreign countries, usually on the HF bands. We were fortunate to have this very experienced DXer present to our club. Dennis Utley, AF7Y, told us the ins and outs of working DX. Dennis has had experience on both ends of the DX circuit, having

operated from several places in the US as well as from remote DXpedition sites. He knows what it takes to work DX in the way of station equipment and operating skill, and even knows first-hand what it takes to be the first-place winner of a major worldwide DX contest. For those that can't quite manage the 75-foot tower and the 1500-watt amplifier yet, he told us about "DX on a Shoestring," what we could do in a low-budget operation. There are some new awards like the QRP DXCC (low-power DX Century Club) that may be more in reach for a newcomer. The QRP DXCC is different from many awards in that it is not necessary to collect and present QSL cards from all the stations worked. (The art of getting QSL cards can be almost as challenging as that of working the DX stations. Dennis told us all about some of those tricks.) By the way, Dennis suggests that if you want to learn more about DX'ing you should get a copy of "The Complete DX'er". Be sure to visit the Utah DX Association web site at www.udxa.org. Thank you Dennis and Darryl.

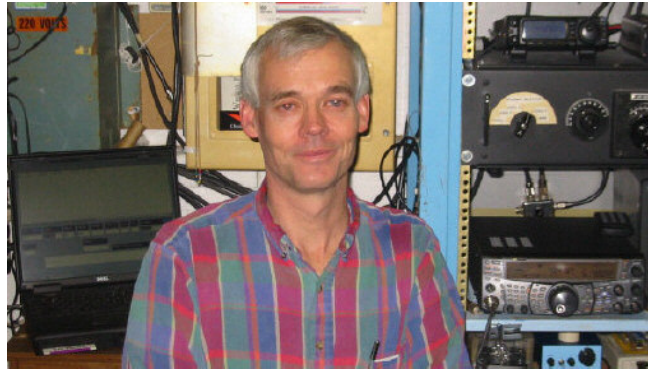
Remember, our next meeting will be the Northern Utah Hamfest. Don't miss this one. See you there. 73, Val K7HCP

PICTURES GO HERE



A Message from our President

Mike Fullmer KZ7O



It is spring time! Or it least it seems that way in between the snow storms.

There is no meeting on the third Saturday this month because it is time for our Northern Utah Hamfest on the 22nd. There have been a small group of people that have put in a good number of hours getting this ready. We have had a few problems the last couple of weeks, but overall I think it is ready. I just hope there are enough activities for everyone to enjoy. We plan on being done right after lunch. It is worth waiting around for because the grand prize is not

given away until lunch time. But there will be lots of smaller prizes throughout the morning. I always look forward to just visiting with other hams that I know from around the area.

Our next activity after the hamfest is field day. This comes at the end of June. We will be back to same location as we were last year. There was plenty of room for a few vehicles and tents. This is always a fun activity.

That's is for this month.

73, Mike, KZ7O

Repeater Update

Not much to report here. The repeaters seem to be functioning okay, which is good. We are working with the Sheriffs office and ARES in putting up a packet node at the Little Mountain repeater site. This will improve communication between the Sheriffs office and the state EOC. Equipment has been ordered for this and will get installed in the next couple of months.

Mike, KZ7O

CLUB NEWS

Next Club Meeting

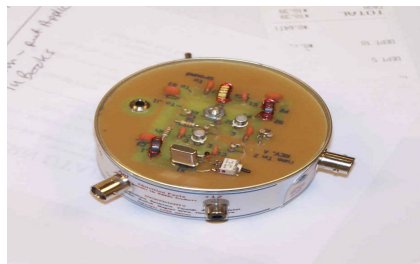
When: 4th Saturday April 22, 2006
Time: 08:00 AM
Location: South Ogden Browning Armory (625 E. 5300 S.)
Topic: Northern Utah Hamfest
Talk-in: -146.90 (pl=123)

Top of each hour Door Prize >>> Tuna Tin 40m QRP Transmitter Kit
Grand Prize Raffle >>> ICOM 718 HF 100 Watt Transceiver w/DSP

- 07:00 - 08:00 **Setup**
Tables, Vendors
[Special Event HF Station - Kim KO7U](#)
- 08:00 **Hamfest starts**
Hourly Door Prizes to be given away
Tuna Tin 40m QRP Transmitter Kit
- 09:00 - 09:45 **Satellite Operation**
Presented by Mark Moulding KU7Z
- 10:00 **VE Test Session** starts
Please have \$14, copy of license, photo ID.
[Pre register](#) with Mary Hazard W7UE
w7ue@arrl.net (801-430-0306)
- 10:00 - 10:45 **Tuna Tin II - kit building project**
Parts kit = \$20
- 11:00 - 11:45 **QLF (left foot CW contest)**
Officiated by Mike Fullmer KZ7O
- 12:00 - 13:00 **Lunch** (order at sign-in) Subway w/chips.
Key Note Speaker ...
Kevin Reeve N7RXE (BARC President)
Topic: LOTOJA - emergency communications
Grand Prize Raffle Drawing ...
[ICOM-718 HF 100 Watt Transceiver w/DSP](#)
(must be present to win the Grand Prize)



ICOM-718 HF QRP Transceiver



Tuna Tin QRP Transmitter

New Members - March

Congratulations to the following Amateur Radio Operators who recently joined our club. For that OARC welcomes you. Hope to see you at our next meeting.

- **N7QCG** **Val Hyer**
- **KC8FTV** **Robert Laumer**
- **AD7HI** **Daniel Peay**
- **KE7FYO** **Tim Peay**

OARC Member License Upgrades

Congratulations to the following Amateur Radio Operators who recently upgraded to a higher class license.

- **KE7EEH** **Tom Harrington** **Extra Class**

[Editors note:]

It was only the meeting before last when Mike, our president, announced the 7th Call Area QSO Party coming up the first weekend in May. Thinking that we would like to involve as many members of the club as possible and include those that may otherwise not be able to participate due to license class restrictions or operating station limitations, Mike asked how many would like to participate in a club station activity that weekend. Tom KE7EEH and his wife Beth KE7ELF both enthusiastically volunteered. You see, at that time both were Technician Class amateurs radio operators and had not experienced the thrill of operating during a contest or operating in the High Frequency (HF) bands.

Well, in this very short time since then, Tom upgraded to General Class. Then he received an "extra" incentive (pun intended) from a very generous Elmer, a fellow Ham, to get his Extra Class before Field Day. Long story short, he passed his Extra Class license on April Fools day (no joke) and is now the proud owner of, not only 1, but 2 HF stations. **Way to go, Tom!**

Congratulations **Charles KD7SST**

Charles KD7SST has completed all three levels of the "ARRL Emergency Communications Course (ARECC)". Check out the Honor Roll Area-7 listings in the March 2006 issue of QST page 43.

MORE CLUB NEWS

Club Badges

(repeat)

OARC Club badges are once again available for all club members and non-members. The cost is \$8.00 each. You can order the badge with either a "PIN" clip or 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. See example below.



Place your order along with \$8.00 in advance for each badge ordered and specify Pin or Magnet style fastener, Call Sign and First Name.

Contact **Director #2:** James Clarke KD7SWL via email or see him at the next club meeting. See web site www.ogdenarc.org "Club Officers" page.

Support your Radio Club

[Join OARC and ARRL](#)

(repeat)

- Membership in OARC is complimentary for remainder of 1st year licensed.
- Reduced membership dues for 1/2 year memberships.
- ARRL "joins" thru OARC benefits your local club without additional cost to you.
(ARRL joins thru the club will receive the new Repeater Directory valued at \$10.95 as a gift.)
- ARRL "renewals" thru OARC also benefit your club without additional cost to you.

Ham Radio Licensing Class - Code Free Technician*

Purpose:

- To provide an opportunity for all ages to enjoy the excitement of Amateur (ham) Radio communication and electronics and to provide opportunities to learn skills for emergency assistance to the church and community.

Sponsor:

- South Ogden Stake of the Church of Jesus Christ of Latter-day Saints
- Ogden Amateur Radio Club (OARC)

*** Note: If any are interested in learning the code, there will be a short session after each class is over and some additional instruction and practice during the two Saturday Makeup sessions.**

Contact person:

- Kent S. Gardner, WA7AHY
 - South Ogden Stake Emergency Communications Specialist
 - Vice-president of the Ogden Amateur Radio Club
<http://OgdenArc.org>
 - 4515 Jefferson Avenue South Ogden, UT 84403
Phone:(801) 475-6282 eMail: L7MFCC@Juno.com

Class Schedule: (7:00 pm to 8:30 pm)

- First class Wed 26 Apr 2006 at 7:00 PM
- Second class Wed 03 May 2006 at 7:00 PM
- Third class Wed 10 May 2006 at 7:00 PM
- (Makeup session) Sat 13 May 2006 at 9:00 AM
- Fourth class Wed 17 May 2006 at 7:00 PM
- Fifth class Wed 24 May 2006 at 7:00 PM
- (Makeup session) Sat 27 May 2006 at 9:00 AM
- Sixth Class Wed 31 May 2006 at 7:00 PM

Class Location:

- South Ogden Fifth Ward Church
4380 Orchard South Ogden, UT 84403
(see map on web site)

Enter through rear door to seminary rooms. No smoking on Church grounds. There is no charge for the class. Handouts will be provided for study material. Some may want to purchase the ARRL "Now You Are Talking" manual.

VE Test Session and Location:

[Wednesday June 07, 2006 at 5:00 PM](#)

Weber Center 2380 Washington Blvd Ogden UT 84401

- Walk-ins welcome:
- Cost: \$14.00 per test
- Two forms ID, one w/pic
- Calculators allowed w/memory cleared
- VE Test Session contacts:
 - Mary Hazard W7UE
(801) 430-0306 w7ue@arr.net
 - Kent Gardner WA7AHY
(801) 475-6282 L7MFCC@Juno.com

AR HOBBY NEWS

"JA" CANDY STORE

If you had a "JA" call sign and lived in Japan you would be blessed with Ham Stores abound like this one in Osaka's electronic district of Tokyo, Japan.



Imagine having a "Candy Store" like this one in SLC, or even better, Weber County!
CQ - March 2005

FCC WARNS RADIO AMATEURS TO SETTLE PERSONAL DIFFERENCES * OFF THE AIR *

The FCC has advised four Texas licensees to take an "ongoing dispute" off the Amateur Radio bands or face enforcement action. Special Counsel in the FCC Enforcement Bureau Riley Hollingsworth sent essentially identical warning letters February 28 to Luis A Caraballo, N7PLC, and Sharon E. Millhouse, KC5PRX--both of Floresville, and to Thomas O. Caldwell, WD5GXH, and Gary Sheets, WD5FWP--both of San Antonio. Hollingsworth said the dispute has "led to allegations of slander and deliberate interference" on the ham bands.

"The Commission is not concerned with the merits, or lack thereof, of any dispute between you or of how you settle such disputes," Hollingsworth wrote, "but any use of amateur frequencies to carry on the dispute is contrary to Section 97.1 of the rules and will lead to enforcement action against the licenses of each of you."

Hollingsworth told ARRL that the personal squabble among the four radio amateurs has been going on for several years, eventually spilling over onto 2 meters. FCC efforts to resolve the dispute have been unsuccessful, he said, adding, "it's degrading the Amateur Service."

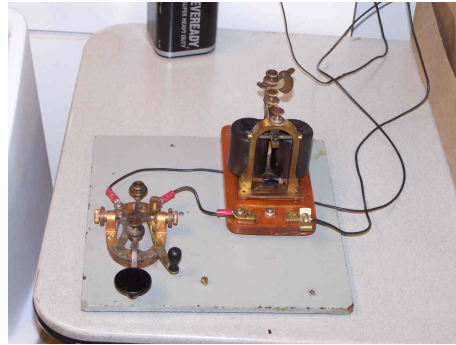
Sanctions could include license revocation or suspension as well as fines of up to \$10,000, Hollingsworth warned. "We may also consider proceedings to restrict or remove the voice privileges of your licenses," he added, noting "this is the last warning you will receive before enforcement action is initiated."

Hollingsworth this week said he'd heard back from all but one of the individuals who received his letters, but only one reply was in writing. In a handwritten note, Sheets pledged to amend his attitude and practices. Hollingsworth said he's awaiting written responses from the other three recipients.

FEATURE ARTICLE

Sounders from Telegraphy's Past and The American Morse Code (150 years old)

In the March OARC meeting, Kent Gardner WA7AHY our club vice president, presented us with a show and tell of his vintage Western Union Telegraph key and sounder. So we decided to look into this topic of great interest further. We hope that you will find this history as interesting as Kent and I do.



1911 Standard American Morse Characters

INTERNATIONAL MORSE CODE	AMERICAN MORSE CODE
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
1 2 3 4 5 6 7 8 9 0	1 2 3 4 5 6 7 8 9 0
Period (.) Comma (,) Interrogation (?) Colon (:) Semicolon (;) Hyphen (-) Slash (/) Quotation marks ("")	Period (.) Comma (,) Interrogation (?) Colon (:) Semicolon (;) Hyphen (-) Slash (/) Quotation marks ("")

Sounders from Telegraphy's Past

Ye old landline operators - they used code keys and sounders. The key is familiar, but what is a sounder? This article will tell you all about sounders (150 years old in 2006).

Samuel Morse, the father of the telegraph, invented his *embossing register* in the 1830s. This was the most widely used type of recorder for telegraph messages during next two decades. However, this changed when some early skillful telegraph operators learned to receive Morse code by ear just by listening to clicking receiving relays. At first, this was disliked by their managers, who preferred printed telegram records, but finally they realized that this rapid human receiving mode was superior to the slow embossing register. Thus, Morse's associate, Alfred Vail, made improvements to the receiving relay, making it a new and louder instrument (the sounder) to make it easier to receive code by ear. This happened around 1856. However, Vail's sounder needed some further development in order to be fully mature, and these improvements were made over the next three decades.

The sounder era was remarkably long in spite of strong overall technological development during the last century. In North America, the sounder was in professional use for nearly 130 years. Just think! There might have been five or maybe even six generations of landline operators in one family! Maybe you even know of such a family? We hams maintain this early tradition by using one of Morse's core inventions - the code key - even in our modern rigs. For most of us, though, the sounder has given way to the pleasant tones of CW on our receiver speakers or headphones. This year, however, is the 150th anniversary of the birth of sounder. Maybe it is time to also set a sounder beside your key to honor those pioneer telegraph inventors and operators. They made our world smaller and more interesting.

How Sounders Sound, Work, and Look

The basic idea of the sounder is to use strong impulsive clicks instead of the continuous CW signals familiar to us. These clicks indicate only beginnings and ends of dashes and dots. They are generated by a moving lever every time it strikes its limiting stops. The secret of this impulse technique is that it produces quite a loud shock sound even with weak energy from a long landline.

Two solenoids with iron cores attract an iron armature connected across the moving lever. The magnetically attracted armature causes the lever to strike the first of two stops, making an audible click. At the same time this attraction stores energy in a spring. The energy in the spring is

used to return the lever to its original position as soon as the magnetic attraction is ended. The returning lever strikes the second stop, making another audible click.

Both clicks must be at the same volume level for effective copying. The volume of the clicks can be trimmed by adjusting the two stops screws and one spring screw, which are also used to set the maximum receiving speed. These adjustments greatly affect your ability to understand code received on a sounder.

CQ – February 2006

American Morse Code

American Morse Code — also known as Railroad Morse — is the latter-day name for the [Morse Code](#) specification originally developed, in the mid-1830s, by [Samuel Morse](#) and [Alfred Vail](#) for their electric [telegraph](#). The “American” qualifier was added because, after most of the rest of the world adopted “International Morse”, the companies that continued to use the original

Morse Code were mainly located in the United States and used by the railroads and Western Union. American Morse is now nearly extinct and “Morse Code” today virtually always means the International Morse which supplanted American Morse. It is interesting history especially how the American code can be sent a little faster than the international code.

History

American Morse Code was first used on a telegraph line constructed between [Baltimore](#), Maryland, and the old Supreme Court chamber in [Washington, DC](#), and the first message, sent on [May 24, 1844](#) by Morse in Washington to Alfred Vail in Baltimore, was “What hath God wrought?” The message was chosen by Annie Ellsworth and is a [bible](#) verse from Numbers 23:23.

In its original implementation, the Morse Code specification included the following:

- short mark or dot (·)
- longer mark or dash (-)
- intra-character gap (standard gap between the dots and dashes in a character)
- short gap (between letters)
- medium gap (between words)
- long gap (between sentences)
- long intra-character gap (longer internal gap used in C, O, R, Y, Z and &)
- “long dash” (the letter L)
- even longer dash (the numeral 0)

Various other companies and countries soon developed their own variations of the original Morse Code. Of special importance was one standard, originally created in Germany in 1848, which was simpler—it eliminated the long intra-character spaces and the two long dashes—but also included changes in the sequences for eleven of the letters and most of the numerals. The modified version was adopted as the European standard in 1865, and was known at first as “Continental Morse”, although as its use

spread it also became known as “International Morse”. At this point the original Morse Code started to be called American Morse, to differentiate between the two main standards. In the late 1890s, radio communication—initially known as “wireless telegraphy”—was invented, and at first radio was mostly limited to dot-and-dash transmissions. Initially, a majority of radio operators used the version of the Code that they were most familiar with—the original Morse Code in the United States, and Continental throughout Europe. However, because of the long range of radio signals, there was a need for a single international standard, especially for seagoing vessels. And at the 1912 Radiotelegraphic Convention, meeting in London, the section of the Convention covering “Transmission of Radiograms” included the statement that “The signals to be employed are those of Morse International Code”. However, even after this, the original Morse Code continued to be used throughout much of the United States. American Morse remained the standard for U.S. landline telegraph companies, including the dominant company, Western Union, in part because the original code, with fewer dashes, could be sent about 5% faster than International Morse. American Morse also was commonly used for radio transmissions on the Great Lakes, and along the Atlantic and Pacific coasts. However, International Morse predominated for ocean-going vessels, and many U.S. shipboard operators became skilled in transmitting both versions of the Code as needed.

Later Developments

Over time, with the disappearance of landline telegraphs, and the end of commercial radio use of Morse Code, American Morse has become nearly extinct. In the United States, the ranks of amateur radio operators used to include many active and retired commercial landline telegraph

operators, who preferred to use American Morse for their amateur radio transmissions, so the [CW](#) (continuous wave) amateur bands used to have a mixture of American and International Morse. However, today even U.S. amateurs use International Morse almost exclusively.

ANNOUNCEMENTS

Next Club Meeting:

4th Saturday April 22, 2006

- The Ogden Amateur Radio Club meetings are held on the **3rd Saturday** of each month.
- **Time: 8:00 AM**
- **Location: South Ogden Armory**
- **Topic: Northern Utah Hamfest**
- **Talk-in: -146.90 (pl 123.0)**

Check OARC web site for details

www.ogdenarc.org

- Please invite a friend to join you. You do not have to be a member of the club to participate in our club meetings or activities. We invite all to join us.
- If anyone is interested in doing a presentation on something or just have something unique to show at the meetings.
 - Please get a hold of any of the officers and let us know.

Next Weber Co VE Test Session:

June 07, 2006 (Wednesday)

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

Time: 05:00 PM *Walk-ins allowed*

Location:

**WEBER CENTER
2380 Washington Blvd,
Room # 112
OGDEN, UT 84401**

Contact: VE Liaison:

Mary Hazard w7ue@arrl.net (801-430-0306)

Cost: \$14.00

Two forms of **ID**, one of which must be a **picture ID**.

For "Upgrades" bring current **license** and a **copy** of current license, and any **CSCE's**

Most **calculators** allowed. Calculator memories must be cleared before use.

Club Web Site

Be sure to visit our club web site.

- www.OgdenARC.org

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

You do not need to join the club to participate with us.

Club Call Sign

Listen to the club repeaters for this very familiar CW ID. You do know Morse Code don't you?

- **W7SU**

ARRL Field Day is held on the last full weekend of June every year.

Location may vary each year so watch this notice for details as time draws near.

See you there.

OARC REPEATERS			
FREQ	CLUB	TONE	LOCATION
146.820-	OARC	123.0	Mt Ogden
448.600-	OARC	123.0	Mt Ogden
146.900-	OARC "Talk-in"	123.0	Little Mtn (w/auto patch)
448.575-	OARC	100.0	Little Mtn (w/auto patch)

OTHER AREA REPEATERS			
FREQ	CLUB	TONE	LOCATION
146.620-	UARC	none	Farnsworth Pk
147.120+	UARC	100.0	Farnsworth Pk
449.100-	UARC	146.2	Farnsworth Pk
449.500-	UARC	100.0	Farnsworth Pk
147.040+	DCARC	123.0	Antelope Isl
447.200-	DCARC	127.3	Antelope Isl
449.925-	DCARC	100.0	No Salt Lake
145.290-	UBET	123.0	Brigham City
145.430-	UBET	123.0	Thiokol
448.300-	UBET	123.0	Thiokol
146.640-	BARC	none	Logan
146.720-	BARC	103.5	Mt Logan
147.260+	BARC	103.5	Promontory Pt
449.625-	BARC	103.5	Mt Logan
145.250-	WSU	123.0	* coming soon
449.250-	WSU	123.0	* coming soon
145.490-	K7HEN	123.0	Promontory Pt
146.920-	N7TOP	123.0	Promontory Pt
449.775-	N7TOP	123.0	Promontory Pt

AREA CLUB MEETINGS & WEB SITES

CLUB	WEB SITE	DATE/TIME	LOCATION
Ogden ARC	ogdenarc.org	3 rd Saturday 09:00 am	Check OARC web site ...
WC ARES	ogdenarc.org/join.html#ares	2 nd Thursday 06:30 pm	Weber Co. Library Ogden Utah
WC Sheriff Comm-O		1 st Saturday 09:00 am	Weber Co. Sheriff Complex West 12 th Street Ogden Utah
Barc	barconline.org	2 nd Saturday 10:00 am	Cache Co. Sheriffs Complex 200 North 1400 West Logan Ut
CSERG	dcarc.net/ares.htm/	Last Wednesday 8:30pm	Clearfield City Hall Clearfield Utah
Dcarc	dcarc.net	2 nd Saturday 10:00 am	Davis Co. Sheriff Complex Farmington Utah
NU Ares	home.comcast.net/~noutares/	3 rd Wednesday 7:00 pm	Cache Co. Sheriff Office Logan Utah
Uarc	xmission.com/~uarc/	1 st Thursday 7:30 pm	UofU EMC Bldg Room 101 Salt Lake City Utah
Ubet	27meg.com/~k7ub/	4th Thursday 6:30 pm	BE-Thiokol: 24 East 100 South Brigham City Utah
Utah DX Association	udxa.org	3 rd Wednesday check web page for details	check web page for details Salt Lake City area
UvhfS	ussc.com/~uvhfs/	Each Tuesday 8:00 pm (refer to web site)	Weekly 2 meter net (no eye ball meetings)
WD Arc	westdesertarc.org/	1 st Tuesday 7:00 pm	Tooele County Courthouse Tooele Utah
WsuArc	arcweber.edu	3 rd Thursday 5:30 pm	WSU Blding #4 Room ? Ogden Utah

LOCAL AREA NETS

DATE	CLUB	FREQ
Daily @ 12:30 PM mt	Utah Beehive net HF	7.272 Mhz HF LSB
Daily @ 07:30 PM mt	Utah Code net HF	3.708 Mhz HF CW
Daily @ 02:00 UTC	Utah Farm net HF	3.937 Mhz HF LSB
Sunday @ 8:45 AM	Ogden Old Timers HF net	7.193 Mhz HF LSB
Sunday @ 7:30 PM	UBET ARC	145.430 - 123.0 (training net)
Sunday @ 8:30 PM	SATERN Net	145.900 - 123.0
Sunday @ 9:00 PM	Morgan	147.060 = simplex
Sunday @ 9:00 PM	UARC Info net	146.620- no PL tone required
Monday @ 9:00 PM	2-meter SSB net	144.250 Mhz 2-meter USB
Tuesday @ 6:30 PM	Weber ARES	448.600 - 123.0
Tuesday @ 8:00 PM	VHF Society Swap	147.120 + 100.0
Tuesday @ 9:00 PM	Bridgerland ARC	147.260 + 103.5
Wednesday @ 8:00 PM	UBET ARC	145.290-, 145.430-, 448.300- (all 123.0)
Wednesday @ 8:30 PM	CSERG	145.770 simplex
Wednesday @ 9:00 PM	No. Utah 10m HF net	28.313 Mhz HF USB
Wednesday @ 9:00 PM	6-meter SSB net	50.125 Mhz 6-meter USB
Thursday @ 6:30 PM	Davis Co Elmers Net	147.040 + 123.0 New Hams
Thursday @ 7:00 PM	Davis ARES	147.420 = simplex
Thursday @ 8:00 PM	Weber State ARC	146.820 - 123.0 (coming soon)
Thursday @ 8:00PM	RACES State VHF	145.490 - 123.0, 146.680 - 123.0 3 rd Thursday - even months only
Saturday @ 8:00AM mst	RACES State HF	3.918 Mhz HF LSB 3 rd Saturday – odd months only
Saturday @ 11:00AM mst	QCWA net HF	7.272 Mhz HF LSB

OARC OFFICERS

President: Mike Fullmer KZ7O
Vice Pres: Kent Gardner WA7AHY
Secretary: Chad Roylance KD7WQS
Treasurer: Jim Southwick N7JS

Director #1: Charles Horn KD7SST
Director #2: James Clarke KD7SWL

"WATTS NEWS" e-Magazine

Editor: Val Campbell K7HCP
Photos: Maggi Campbell N7HCP

OTHER CLUB FUNCTIONS

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