



WATTS NEWS



The Best of Amateur Radio

Welcome to the OARC e-Magazine

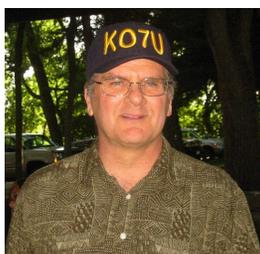
www.OgdenArc.org

MAY 2010

Next Club Meeting

3rd Saturday 15 May 2010

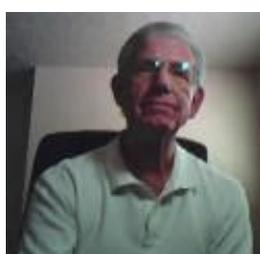
Topic: Field Day - Past, Present, Future (prep)



Kim Owen K07U
President



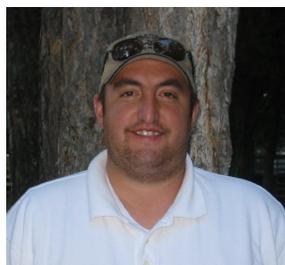
James Clarke KD7SWL
Vice President



Larry Griffin AD7GL
Secretary



Jeff Anderson KD7PAW
Treasurer



Justin Doxford KE7ROQ
Program Director



Tom Harrington AF7J
Activity Director



Val Campbell K7HCP
Webmaster/NL Editor

PREVIOUS CLUB MEETINGS

3rd Saturday 17 April 2010

HF 101 (HF for Beginners) by Val Campbell K7HCP

The following is the website and newsletter April meeting notice 'abstract' that was posted prior to the April meeting:

Come and enjoy an extensive but enjoyable Power Point Presentation about Amateur Radio in the HF spectrum (the Short Wave bands). Find out about how HF can be used by ALL licensed hams, regardless of license class to communicate around the world. The presentation utilizes many full color slides, pictures, graphs, charts, tables and audio sound bytes and a live hands-on demonstration of this fascinating hobby.

We trust that it lived up to the billing. Hi Hi

Following the power-point presentation John Shupe K7DJO conducted a hands-on demonstration of HF communications on the amateur radio shortwave band using a pair of HF transceivers communicating "clear" across the room.

Anyone that missed the presentation or those that attended and chose not to take notes during the presentation can view/print/download a .PDF version of the presentation from the club website's "download" page.

President Kim Owen K0TU, presented to the club the newly designed Golden Spike logo/patch and Sara Morris, Custom Embroidery, was there to take orders for unique OARC's Golden Spike special event embroidered shirts. Kent Gardner WA7AHY discussed the details outlining the events activities and asked for members to sign up to operate shifts over the course of the weekend.

73, Val Campbell K7HCP





NEXT CLUB MEETING

When: 3rd Saturday 15 May 2010
Time: 9:00 AM

Location: Riverdale Fire Station
Topic: Field Day - Past, Present, Future (prep)

Come and enjoy a Power Point Presentation about last years OARC Field Day 2009 and help us plan this year's event.

OARC / ARES Coming Events Calendar

May = Ares Marathon

June = Wasatch Back

June = Pony Express - See DcArc for details
(150th Annv - Travel from West to East - 48 hrs in Utah)

June 26/27 = ARRL Field Day - WOKP Ranch
(See OgdenArc.org for details)

Sept 11 = LOTOJA (Bicycle Race - Logan UT to Jackson Hole WY)

Weber Co VE Test Session

Next Weber Co VE Test Session:

1st Wednesday 02 June 2010 @ 5:00 PM

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

"SALE" or "WANTED" ITEMS NEEDED

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

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

FROM KIM'S SHACK



Kim Owen K07U



From Kim's Shack....

CQ ALL Members and Friends of OARC

The Golden Spike Special Event was a complete success.

I want to extend a special thanks to Kent WA7AHY for all of his work on the Golden Spike Special Event. Kent really made the event happen and made it a quality event too. Thanks, Kent.



I worked Sunday morning (9 May 2010). The weather was perfect. I was in my shirt sleeves working through pileups on the radio. It was perfect! The National Historic staff was setting up for the day's activities. The Jupiter came out first, later the 119 steam engine came out blowing its horn and bell ringing. I couldn't hear anything but the train and I transmitted through it. Everyone that heard was excited to hear the bell and whistle. It was a nice accent to the day.

Club meeting this month, I hope that to get a of few Golden Spike participants to talk about their experience. We will also be talking about Field-day next month. I hope to see you there.

For now,
73 de Kim/K07U

CLUB BUSINESS

OARC SPECIAL EVENT STATION

On May 8 thru May 10, 2010 the OARC operated an ARRL special events station at Promontory Point for the Golden Spike Celebration. We were listed on the ARRL website - Special Events and in the May QST page 85. The OARC 's special event call sign for that weekend was "**W7G**".

May 8-May 10, 1500Z-2300Z, Ogden, UT. Ogden Amateur Radio Club, W7G. 141st Transcontinental Railroad Golden Spike Commemorative. **14.285 Mhz and 7.250 Mhz.** QSL. Ogden Amateur Radio Club, PO Box 3353, Ogden, UT 84409. OgdenArc.org

A special thanks to Kent Gardner WA7AHY for coordinating the details of this special event.

A short story: Submitted by Kent Gardner WA7AHY

Some of the club members tried to work the Special Events Station from their home QTH, but were unsuccessful. So I brought out my QRP rig to the parking lot and hooked it up to my battery and connected it to my 5-band dipole which was still rolled up in the middle seat of my van. I tuned in a faint signal from W7G and tried to work it from 25 feet away, but couldn't get a return from them. After 10 minutes of frustration I finally tuned up the band and was just about blasted away from their strong signal. I then was able to make an exchange and will now qualify for a QSL card. What had happened is that I tuned into a harmonic below the actual frequency and they could not hear me. When I finally tuned them in on their primary frequency I finally was successful in getting my QSO finished from 25 feet away. It was fun after all.

73, Kent Gardner, WA7AHY



141st ANNIVERSARY
CELEBRATION
 Commemorating the Completion of the
FIRST TRANSCONTINENTAL RAILWAY
 RAILROAD FROM THE ATLANTIC TO THE PACIFIC

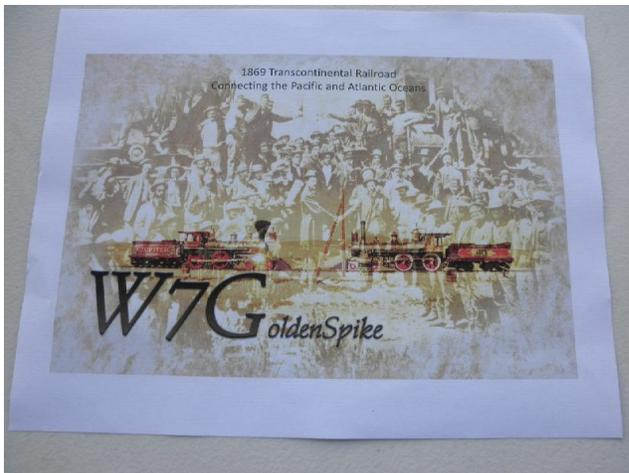
Central Pacific Jupiter and Union Pacific 119 Meet Once Again
 with "Half a world behind each back"

RE-ENACTMENT PROGRAM
DRIVING OF THE GOLDEN SPIKE
Monday, May 10, 2010 at 11:00 A.M.
Second Re-enactment - 2:00 P.M.

GOLDEN SPIKE NATIONAL HISTORIC SITE
FOOD • ENTERTAINMENT • SOUVENIRS
 ••••• GUEST SPEAKER •••••
KYLE WYATT
 Historian California State Railroad Museum

Festivities begin at 10:00

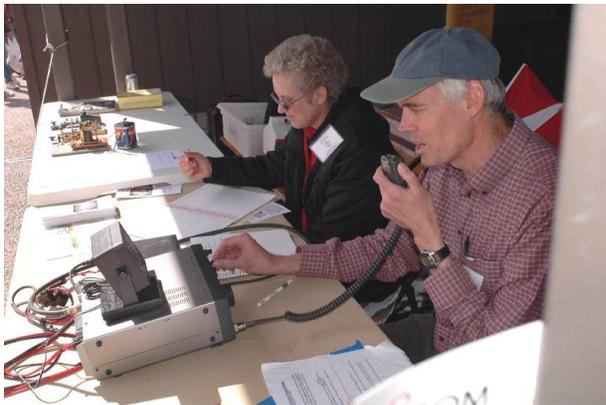
SPONSORED BY THE GOLDEN SPIKE ASSOCIATION, GOLDEN SPIKE NATIONAL HISTORIC SITE & BOX ELDER COUNTY TOURISM COUNCIL



**Golden Spike
 Radio Operator**

**A representative of the
 Ogden Amateur Radio Club**







Golden Spike Special Events Station Contact Statistics

Operating times: Saturday, Sunday and Monday 8-9-10 May 2010
9:00 AM - 5:00 PM daily

100 Watts, SSB into an East/West broadside G5RV Jr. inverted V antenna.
19 Operators; 179 Contacts logged with an additional 5 incomplete:

States worked: 33

Canadian stations 3
Hawaii 3
Californian 40

Arizona 21
Utah 5
Texas 9

**Names and addresses of Golden Spike Special Event Operators
8-9-10 May 2010; 19 total operators - for operator certificates**

Kim Owen, K07U
3914 S. White Rail Lane
West Haven, UT 84401

James Clarke, KD7SWL
145 E. 4775 S.
Washington Terrace, UT 84405

Tyler Clarke, KF7GMG
145 E. 4775 S.
Washington Terrace, UT 84405

Bob Warren, KB7AWE
4076 Parker Drive
Riverdale, UT 84405

Scott Morrison, KC7MLI
729 W. Cahoon
Ogden, UT 84401

Gary Hudman, KB7FMS
3761 W. 5625 S.
Roy, UT 84067

Chris Smith, K7CDS
1129 North 2725 West
Layton, UT 84041

Mike Groves, KD7MG
2707 E. 600 N.
Layton, UT 84040

Jeff Anderson, KD7PAW
1048 E. 100 N.
Brigham City, UT 84302

Stan Sjol, WOKP
5573 S. 4300 W.
Hooper, UT 84315

Mike Fullmer, KZ70
1974 With 4600 S
Roy, UT 84067

Joan Fullmer, N7OLZ
1974 With 4600 S
Roy, UT 84067

Val Campbell, K7HCP
1638 N 475 E
North Ogden, UT 84404

John Shupe, K7DJO
4090 Edgehill Dr.
Ogden, UT 84403

Kent Gardner, WA7AHY
4515 Jefferson Avenue
South Ogden, UT 84403

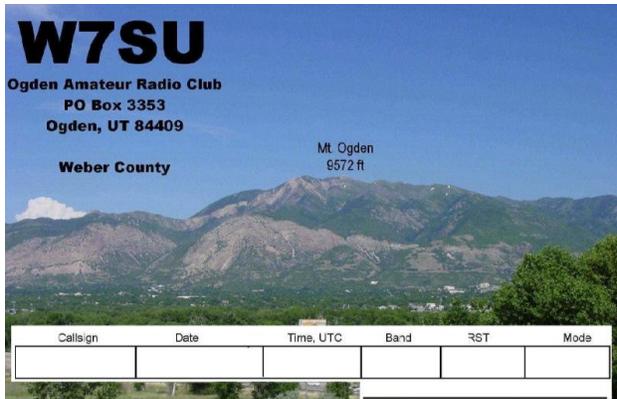
Tom Harrington, AF7J
636 W. 24th Street
Ogden, UT 84401

Nathan Swenson, KF7JOY
687 33rd Street
Ogden, UT 84403

Dave Harris, K7PDW
P.O. Box 160012
Clearfield, UT 84016

Corbin Matschull, KE7VSU (with Dave
Harris)
P.O. Box 160012
Clearfield, UT 84016

MORE CLUB BUSINESS



The Ogden Amateur Radio Club call sign is W7SU. Shown here is our club QSL card.

Mike Fullmer KZ7O created this design several years ago for the club to use whenever we received a request from another amateur radio station to confirm an amateur radio HF band contact (QSO) with our club station.

This year we operated a special event station to celebrate the Golden Spike anniversary at Promontory Point on May 8, 9 & 10 but we used a special event call sign, W7G, for that special event rather than use our club call sign. Refer to other articles in this month's newsletter for additional details regarding this special event.

A request for our club QSL card doesn't happen very often. This is because we usually don't put the club station on the air except during special occasions such as the ARRL Field Day each June and the 7th Area QSO Party, 7QP, each May. Typically, QSL cards are not exchanged during field day exercises so the only QSL requests we usually receive are associated with our 7QP events.

However recently the club website received an email from the 7th Area Incoming QSL Bureau stating that they had several incoming QSL card for W7SU on file there waiting for our club to fetch (provide postage), which we happily did.

To our surprise the QSL cards we received were few in number but had been waiting for us to retrieve from the incoming QSL bureau for many years.

QSL Cards Received:

JA3EYO/JD1 - HAHAJIMA - FEB 2002
JG3CKF/1 - JAPAN - APR 2003
IK1RLI - ITALY - AUG 2003
DS3EXX - KOREA - FEB 2004
VC3L - QUEBEC - OCT 2004
DE1JDK - GERMANY - OCT 2004

EA1COZ - NAJERA - OCT 2004
7K3OWM - JAPAN - OCT 2004
P63N - NETHERLANDS - NOV 2005
HB9CIP - SWITZERLAND - NOV 2007
S58AL - SOLOVENIA - MAR 2008
JF1FFX - JAPAN - JUL 2008

John Shupe K7DJO offered to accept the task of filling out our return QSL cards and mail them out to the amateurs around the world that had been so patiently waiting for years for our reply.

Thank you John for taking care of business!

MORE CLUB BUSINESS

Earlier we mentioned the 7th Area QSO Party, 7QP, which takes place the first weekend in May. During this event, participating stations that reside in the western and north western states that make up the 7th call area, excluding California (which in the 6th call area), try to put as many counties in each state in the call area on the air promoting interest throughout the US toward the 7th call sign area for that weekend. The objective is for stations to contact as many states and as many counties within each state in the 7th call area as possible.

For the past several years OARC has participated in this event. Sometimes we get together and use the club station and call sign for the event. Other times individual members use their own call signs and operate from their home QTH or go mobile to some other remote county within the state to temporarily activate an otherwise dead county (a county where few if any hams reside).

Well, this year OARC was distracted in May by the excitement of supporting a special event station at the Golden Spike celebration so we failed to participate in the 7QP event which took place one weekend before.

Unfortunately our absence from participating in this year's 7QP event didn't go unnoticed. A good friend and relative of mine, Terry Thompson K7MPP, originally from Ogden but now resides in Great Falls VA, got on the air that weekend especially hoping to nail a QSO with OARC. Afterwards I received the following email from K7MPP.

Hey, where the heck were you in the 7th Area QSO Party? I worked several UT stations with good signals--especially K7UM. He was consistently +30db or better in here on 40M down around 7160. Several others were +10 or better. Good to hear some UT stations getting gud signals over those pesky foothills to the east. Never heard any ID, MT or WY stations, but worked plenty of WA, OR, AZ, NV and UT stations, plus a few contacts on 80M SSB as well, despite fairly bad QRN and weaker signals here. Never fired up the amp--the HF2V vertical usually gets it done FB. I was working a European DX contest, the New England QSO Party and the 7th Area QSO Party all at the same time--on a paper log sheet. I had been working the Europeans on 20M, then switched to 40M after dark and the QSO parties suddenly showed up in between the Europeans, so I started calling them as well. It was nice to get RI on 40M, even from here. One of these days I'm going to have to break down and put a TRS-80 in the shack to do my logging on--HI! 73, Terry Thompson K7MPP

Even though Terry has lived in VA for many years now he often coordinates his visits to Utah with the OARC Stake Fry/membership renewal meetings and never fails to sign up to renew his membership in OARC. He tells me that he visits our website often and reads this newsletter faithfully.

Take care Terry, and we promise we'll get W7SU on the air during the 7QP next May.

HOBBY NEWS

The following item was submitted to the newsletter by Mike Fullmer KZ7O. He said... It is only good from 225 Mhz and up, but it is interesting.

FCC makes spectrum dashboard available

The Federal Communications Commission (FCC) has also announced the release of a beta version of its new Spectrum Dashboard, which it says will enable users to learn more about how portions of the electromagnetic spectrum are allocated and used.

According to a press release issued by the FCC, the new Spectrum Dashboard includes four components that allow users to:

- *Browse spectrum bands:* Users can search by spectrum range by browsing an interactive spectrum chart:
- *Search for spectrum licenses:* Users can search by name, geographic area or service;
- *Produce maps of spectrum licenses:* Users can produce maps that depict a geographic service area for individual licenses, the amount of spectrum that has been licensed in a given area, or the amount of spectrum licensed to an individual licensee;
- *Export raw data:* Users can download raw data from any search into spreadsheets for more complex analysis.

[The FCC's new spectrum dashboard is available at www.fcc.gov/spectrumdashboard.](http://www.fcc.gov/spectrumdashboard)



The Last Tech-Plus license to Expire in June

In February 1991, the FCC dropped the 5 WPM Morse code requirement for new Technician licensees, and in 1994, it created a new class of Amateur Radio license: the Technician-Plus, also called Tech-Plus. This new license differed from the Technician license in that Tech-Plus licensees had passed the code test and had more operating privileges on HF. Patricia Phillips, N3IGI, of Pittsburgh, Pennsylvania, received her Technician license on June 12, 1990. On March 21, 2000, she upgraded her license to Tech-Plus, and, at the same time, renewed her license, now set to expire June 12, 2010. This makes Phillips the last Tech-Plus in the FCC database. If she renews her Amateur Radio license, she will be a Technician.

FEATURE ARTICLE

The Signaling Merit Badge for the Boy Scouts of America was discontinued in 1992, but is being 'resurrected' for this year of 2010 only. It is one of four merit badges being brought back in commemoration of the 100th anniversary of Scouting being in the United States. One of the requirements is to build a light, wireless or sound device for code practice. The following article shows a new version that can be built for less than \$10.00.

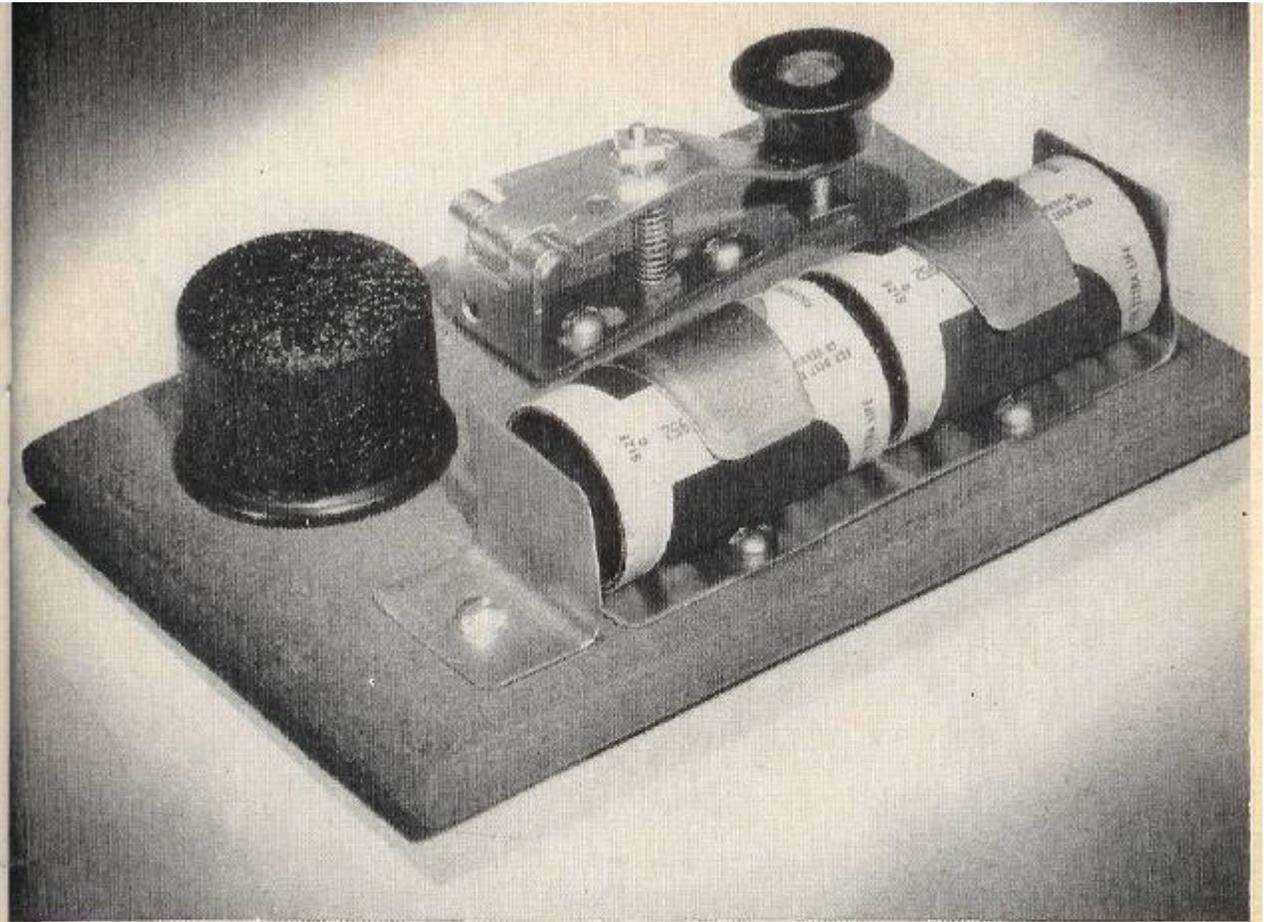
Kent Gardner WA7AHY

Signaling Merit Badge Requirement 1:

1. Make an electric buzzer outfit, wireless, blinker, or other signaling device.

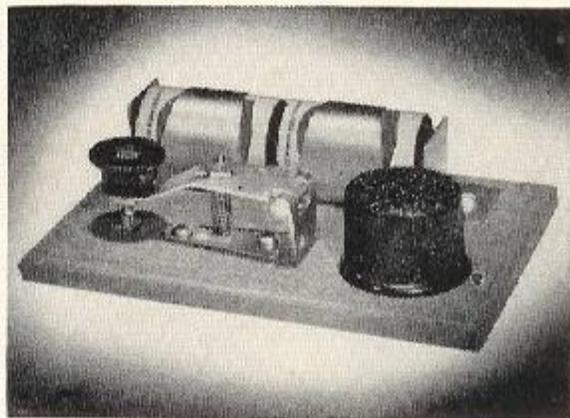
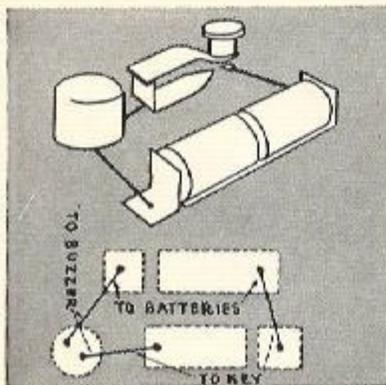
While you may choose to make your own device, say by wiring together a flashlight bulb, battery and makeshift key, it is recommended that you learn the code by audible tone. Learning by ear is much more useful, especially if you want to become a ham radio operator* or military signalman.

The following diagrams and text show you how to make a useful and inexpensive device that radio operators would be proud of. It all starts from an article in a Scout's favorite magazine the *Boy's Life* and reprinted in the 1964 printing of the Boy Scout Signaling Merit Badge booklet.



The finished buzzer is shown above. Note that the battery holder is made of two separate pieces of metal. The small bracket holding the front end of the batteries does not connect with the large bracket that forms the back part of the holder and clamps around the batteries. Below at left is a wiring diagram, including a bottom view of the hook-up. In the view at right below you will see that the key does not strike the hinge, but instead strikes a bolt that comes up through the board from the bottom, separate from the hinge.

(Illustrations courtesy of BOYS' LIFE)



Make a modern version by using a "piezo buzzer" and a nine volt battery. The key is made from a door "strap" hinge. The parts list is as follows:

One of the following first two buzzers.

- 12 Volts DC Piezo buzzer, Radio Shack part number 273-0059 (\$3.49). Best choice. It has the best tone that approximates what you would hear on a shortwave radio.
- 12 Volts DC Piezo buzzer, Radio Shack part number 273-0060 Okay, but has a different tone (\$4.49)
- Do not use 1 to 3 Volt Radio Shack Mini Buzzer part number 273-0053 (\$3.49). It has a bad tone.
- Any good 9 volt battery. Other battery voltage values should work okay, but may change the tone, but 9-volt battery works well enough even though it calls for 12 volts.
- One 9 volt battery snap connector Radio Shack 270-0325 (\$1.99 pkg of 5). Note unit pictured uses $\frac{1}{2}$ of a test clip lead. Use what you have.
- Strap hinge such as the Stanley 14-0460 4 inch (Lowe's 315667) (\$2.98 for pkg of 2).
- Generic Delta Faucet Seat Spring kit (Lowe's # 175863) or equivalent. (\$1.09) Use one of the two larger springs. Stretch it longer to provide spring-back of the strap hinge telegraph key.
- Use number 8 hardware screws and nuts or equivalent depending on what you have in your junk-box.
- Cabinet knob or equipment foot for key knob.
- Cap nut (optional) # HM 8-32 (Lowe's # 58111) or equivalent.
- Miscellaneous hookup wire
- Wooden base block. Photo below shows a pinewood derby car display block leftover from 2006.

Other notes:

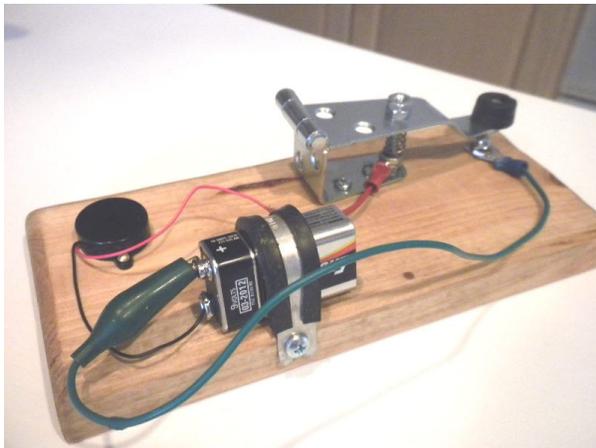
The stretched faucet spring might be a little stiff as compared to a professional key, but it suffices quite nicely. Experiment with lighter springs if you have them.

If one is comfortable around resistors, capacitors, transistors and other electronics and soldering irons, check the internet for "code practice oscillator" circuits that can be purchased or built.

The Electronics Merit Badge booklet shows a code practice oscillator sample circuit on page 29 even though some components are not labeled. Share multiple parts with a fellow scout.

A garage vice helps in bending the door hinge or you can use a pair of vice-grips.

*Note: Ham radio licenses no longer require code proficiency even though code is still used regularly in day to day operations. Knowing code adds romance and mystery to radio communications.



73, Kent Gardner WA7AHY

ANNOUNCEMENTS

Next Club Meeting:

3rd Saturday 15 May 2010

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

- **Time: 9:00 AM**

- **Location: Riverdale Fire Station**

**Topic: Field Day - Past, Present,
Future (prep)**

- **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:

1st Wednesday 02 June 2010

- 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	ZONE	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	ZONE	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
ATV	UARC	Ch-58	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
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 County	100.0	Lewis Peak

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 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
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	3.570 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	UBET ARC	145.430 - 123.0 (training net)
Sunday @ 8:30 PM	SATERN Net	145.900 - 123.0
Sunday @ 9:00 PM	Morgan Co Net	147.060 = 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 @ 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	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 @ 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: Kim Owen KO7U

Vice Pres: James Clarke KD7SWL

Secretary: Larry Griffin AD7GL

Treasurer: Jeff Anderson KD7PAW

Program Director:
Justin Doxford KE7ROQ

Activity Director:
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