



WATTS NEWS



The Best of Amateur Radio

OARC e-Magazine

www.OgdenArc.org

JANUARY 2014

Next Club Meeting/Activity

3rd Saturday 18 January 2014

Topic: Raspberry PI by KE7IET & WOKP



Larry Griffin AD7GL
President



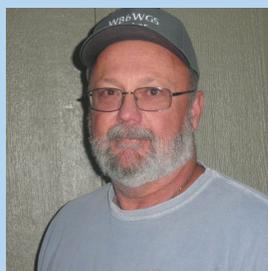
Gil Leonard NG7IL
Vice President



Gary Hudman KB7FMS
Secretary



John Shupe K7DJO
Treasurer



Pete Heisig WB6WGS
Program Director



Jason Miles KE7IET
Activity Director



Val Campbell K7HCP
Webmaster/NL Editor

PREVIOUS CLUB MEETINGS

OARC Family Christmas Dinner Party

Date: 3rd Saturday, 21 December 2013

Time: **6:00 PM**

Location: Golden Corral

10th & Washington Blvd, Ogden, Utah

DOOR PRIZES: **3 Grand Door Prizes this year!**

[Paid-up members only, sign-up/renew membership at meeting]

NEXT CLUB MEETING

Raspberry **PI** by KE7IET & W0KP

Jason and Stan will entertain us with information about
Programming and using this novel hi tech device.

Bring your **PI** to show and tell if you have one of your own.

Date: 3rd Saturday, 18 January 2014

Time: **09:00 AM**

Location: Riverdale Fire Station

OARC COMING EVENTS

Amateur Radio Technician License Class 25 January 2014
VE Test Session - 1st Wednesday 05 February 2014 @ 6:00 PM
Northern Utah Hamfest—02 & 03 May 2014
Golden Spike Special Event Station—09 & 10 May 2014

CLUB MEETING PICS

21 December meeting ... Photos by K7DJO

60 hams, family and friends attended this years celebration.

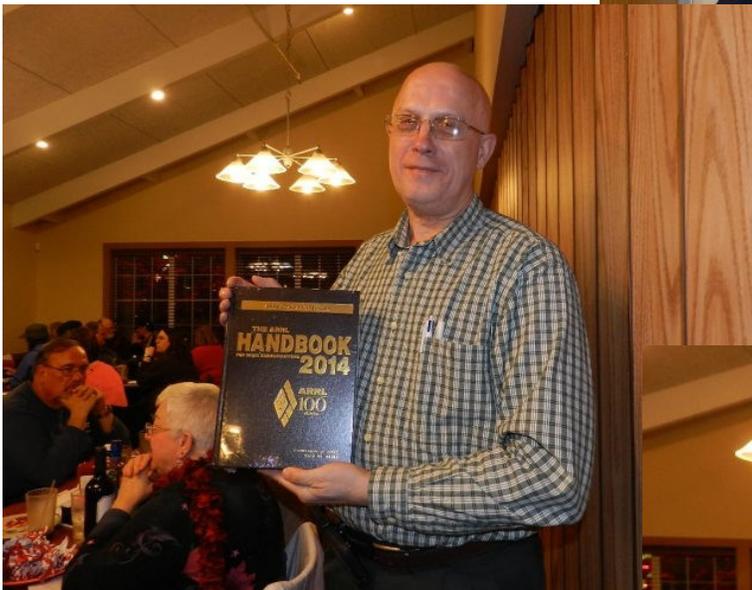
Larry AD7GL receives assistance from a young Attendee, drawing door prize tickets.





3 Grand Door Prize winners!

Plus lots more ...





**Fun
was
had
by
All !**





QST's and QRM from LARRY'S SHACK



Larry Griffin AD7GL President

QST'S AND QRM From Larry's Shack

Well, we are off to the start of the brand new year 2014. In terms of Amateur Radio propagation, sunspot cycle 24 has been and continues to be interesting. 2013 sunspot propagation has been less rewarding than most past cycle peaks. The predictions for the outcome of cycle 24 seem to be varied. They go from the possibility of a double cycle peak to the lowest peak on record to the start of another multi-cycle Maunder minimum to the lowest cycle peak since the 1906 cycle. Apparently we are passing the peak as the sun has reversed polarity. However, 2014 should still be the year you resolve to be on the air more as there is plenty of fun to be had on the bands. The 10 meter band continues to open every day as it has done since the end of September. Since September I have enjoyed many 10 meter QRP contacts (5 watts). The contacts have been DX and Stateside using compromise antennas. I use Upper Sideband, JT-65 Digital and CW modes. So--- in the New Year 2014, dust off that equipment and get on the air. There is plenty of fun for all regardless of what cycle 24 records in the history books.

2013 was a great year for one of our local Ham Operators. QRZ.com had 20 year anniversary sweepstakes drawing for numerous prizes. They attracted over 11,000 entries. I entered and won my usual "sorry, but thanks for entering anyway". Jim Southwick, N7JS hit the big one. Jim won a new Yaesu FTDX 1200 transceiver, a wonderful new-to-market radio. CONGRATULATIONS JIM! Enjoy the radio.

QST'S AND QRM From Larry's Shack continued ...

Reminder: Saturday, January 25th @ 8:00 AM. Technician Crash Course and Testing Session. The course will be held at the Weber County Sheriff's Office Training Room. Gil Leonard, NG7IL will instruct the course. Rick Morrison, W7RIK and Jason Miles, KE7IET and the VE Team will be conducting the test session. If you have a Candidate, please tell them it is necessary to go the OARC website and complete the homework as the course will not fully prepare them to test without doing so.

OARC will be holding our regular License Testing session on Wednesday, February 5@ 6:00 PM. It will also be at the Weber County Sheriff's Office Training Room.

Please mark your February calendar for Saturday the 15th. Our meeting will be the "Get to know your fellow ham" social. Along with that, be thinking of a project or a piece of gear that you would like to bring and tell us about. We will have light refreshments, lots fun and grand informal conversation. It is always a fun meeting.

Our January 18th Meeting will feature Stan Sjol, W0KP and Jason Miles, KE7IET and a discussion about Raspberry Pi. If you have anything to add to the discussion or an application of Raspberry PI project, please bring it. I can't wait to see you there.

Thanks for listening,

Larry

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

NOTICES

(Repeat)

Next Licensing Class ...

Technician-Class Licensing Session (one day crash course)

Saturday 25 January 2014: 8:00 AM to 3:00 PM

(Special VE Test Session to follow @ 3 PM)

The class will use the KB6NU *No-Nonsense Technician-Class*

License Study Guide which can be found at

www.KB6NU.com/tech-manual

More information follows ...

CLUB NEWS

(Repeat)

Amateur Radio Technician License Class January 25, 2014

The [Ogden Amateur Radio Club](#) will be holding a one day Technician licensing class beginning at 8:00 am January 25, 2014. This will be a one day cram style class lasting until about 3:00pm. Students are expected to prepare before class. Preparation instructions are below. There is no cost for this class. Testing for licensing will follow immediately after class and is \$14.00.

Location:

Weber County Sheriffs training room.

721 W. 12th Street, Ogden Utah

8:00 am to 3:00 pm

Students should prepare for this class by:

Reading the “KB6NU No Nonsense Technician Study Guide” before class begins. A copy can be downloaded for no charge here. [Study Guide](#)

Read the Part 97 rules, found here. [Part 97 Rules](#)

Take a practice test, found here. [Practice Test](#)

Print a copy of the ARRL Band Plan, found here. [ARRL Band Plan](#)

Familiarize yourself with the Utah VHF Society Band Plan and Utah Repeater list, found here. [Utah VHF/UHF Band Plan](#) [Repeater List](#)

Testing will begin at 3:00 pm. Those wishing to test will need the following:

Two forms of ID, one must be a photo ID

Federal Registration Number (FRN), or a social security number. FRN available here. .

[FRN Number](#)

\$14.00 test fee; cash preferred, checks ok, no credit cards.

Those wishing to upgrade must have any CSCE's or original unexpired license.

Contact Gil Leonard NG7IL with any questions and to save your spot. ng7il@arrl.net

CLUB NEWS continued ...

(Repeat)

Links

[Ogden Amateur Radio Club](#)

<http://www.ogdenarc.org/>

[Study Guide](#)

http://www.kb6nu.com/wp-content/uploads/2010/06/2010_Tech_Study_Guide.pdf

[Part 97 Rules](#)

[http://www.ecfr.gov/cgi-bin/text-idx?
c=ecfr&SID=336ab7469b61ecbfa15086dbf1bf2c59&rgn=div5&view=text&node=47:5.
0.1.1.6&idno=47#47:5.0.1.1.6.1.157.1](http://www.ecfr.gov/cgi-bin/text-idx?c=ecfr&SID=336ab7469b61ecbfa15086dbf1bf2c59&rgn=div5&view=text&node=47:5.0.1.1.6&idno=47#47:5.0.1.1.6.1.157.1)

[Practice Test](#)

<http://aa9pw.com/radio/>

[ARRL Band Plan](#)

http://www.arrl.org/files/file/Regulatory/Band%20Chart/Hambands_color.pdf

[Utah VHF/UHF Band Plan](#)

<http://utahvhfs.org/bandplan1.html>

[Repeater List](#)

<http://utahvhfs.org/rptr.html>

[FRN Number](#)

<https://apps.fcc.gov/coresWeb/publicHome.do>

CLUB ARTICLE

Ogden/Weber VE Test Team

Rick and Jason have been the OARC VE liaisons since the beginning of 2012. During the two year period that followed they have conducted 6 regular VE test sessions in addition to 3 special test sessions.

68 HAMS have been licensed or upgraded during the past two years. Way to go team!

Exam sessions are held in Ogden, *usually* the first Wednesday in February, June, and October. Additional test sessions may be held on special occasions.

Time: 6:00 PM

Location:

Weber County Sheriff Office

Training Room

712 W 12th Street Ogden Utah

Richard Morrison W7RIK (VE Liaison) morrisonri@msn.com 801-791-9364

Jason Miles KE7IET (IT assistant)



Richard Morrison W7RIK



Jason Miles KE7IET

Continued...

Continued...

OARC VE Team Members (current volunteers)

Richard Morrison W7RIK (VE Liaison)

Jason Miles KE7IET (IT assistant)

Mary Hazard W7UE (VE Advisor)

Mike Graves KD7MG

Larry Griffin AD7GL

Ken Johnson AE7SX

Gil Leonard NG7IL

Kim Owen KO7U

Johnny Rauzi K7ZZQ

Richard Rohde W7DAX

Ken Wilson N7OG

Dave Woodcock WY7P

CLUB NEWS



John Shupe's (K7JDO) 8 band HF vertical struggles under the strain of snow!

REPEATER NEWS

OARC Repeater Sites

This is one of several pictures at the **Mt Ogden** repeater site taken during a not so recent visit to the site to do necessary repairs.



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.

HOBBY NEWS

CONGRATULATIONS To “our” Jim Southwick N7JS !!!

The QRZ 20th Anniversary User Survey Sweepstakes

In the past 20 years, one thing that we've learned is that our members appreciate what we do very much. This year, in recognition of our 20th anniversary, we're going to return that appreciation by holding one of the biggest online sweepstakes ever at QRZ.

SWEEPSTAKES WINNERS ANNOUNCED

GRAND PRIZE #2

WINNER: **N7JS, James Southwick**

YAESU FT-DX1200

Donated by: GigaParts

YAESU* FT-DX1200** ***Complete HF Station



Designed for the casual operator as well competitive operating situations, whether you primarily operate in contests, chase DX or enjoy field operating!
This prize package includes the Yaesu FP-1023 110V power supply and a RadioWavz DX80 wire antenna.

HOBBY NEWS

Village of Kenmore in Buffalo NY, adds \$1000 permit fee for amateur radio antennas

The board passed a separate law Tuesday regulating the placement of amateur, or ham, radio antennas. The law includes a \$1,000 application fee for a special-use permit.

A Kenmore local resident, a ham radio operator, responded as follows:

I email our mayor and town clerk :

I read in the Buffalo News about the new \$1000 application fee for Ham radio antennas. I would like the text of the law so I can forward it to the FCC as I believe you are in violation of federal law.

Nevertheless, local regulations which involve placement, screening, or height of antenna's based on health, safety, or aesthetic considerations must be crafted to accommodate reasonably amateur communications, and to represent the minimum practicable regulation to accomplish the local authority's legitimate purpose.

When I compare the \$1000 cost to the other permit costs listed for Kenmore there is no way this can be seen as the "minimum practicable regulation to accomplish the local authority's legitimate purpose" and I doubt the FCC will see it that way either. I have contacted the ARRL and am getting them involved. I plan to contact the FCC once I here back from you.

I am an active member of our community and volunteer at the Kenmore Fire Department. I have lived in Kenmore for 13 years and love the community and its people, but a thousand dollars to install a \$30 antenna, how can this be seen as reasonable?

the Clerk responded :

The fee noted in the Buffalo News is for those operators who require land use and building permit approvals to construct an antenna structure on their property. Generally speaking, this will pertain to HAM operators seeking to install a free-standing antenna on their property, or an antenna structure on an existing building. Some of the issues that must be evaluated include setbacks, tower height, tower construction, tower location, communications needs and goals of the applicant, and appropriate and reasonable alternatives. In conducting this evaluation, the Village will be required to obtain both engineering and communication consultant support in order for it to appropriately balance the interests of the HAM operator with the health, safety and general welfare of the community. In our research, several courts have reviewed a municipality's use of such consulting help and have evaluated the municipality's resulting thorough analysis. This assistance is especially important in a municipality like Kenmore; obviously we are not dealing with a rural community with large lots and low density. I'm sure you appreciate that Kenmore lots are very small. Any type of antenna structure is likely to cause unique concerns. The Village needs to be sure that any proposed antenna structure will not present any safety issues, and will not have any other adverse impacts. The Village also must make sure that the antenna structure is the minimum necessary for the operator to achieve his/her goals. We consulted with our attorneys on this matter and the fee represents the anticipated costs of obtaining needed consultant advice, which the courts have referenced when reviewing cases on this matter. New York law provides that the costs of administering permits are appropriately born by those seeking the approvals.

Please note that the Village, prior to passing this law, had no regulations pertaining to HAM operators, and such antenna structures were prohibited by local law. This local law represents the Village's efforts to expand the rights of HAM radio operators.



SUN SPOT ACTIVITY UPDATE

Solar Scientists Say Cycle 24 is the Weakest in More than a Century

Four leading solar scientists on December 11 told journalists attending the American Geophysical Union ([AGU](#)) [fall conference](#) in San Francisco that current solar Cycle 24 has demonstrated extremely low sunspot activity and appears to be the weakest cycle of the past 10 cycles -- more than 100 years. This already has resulted in milder "space weather" and less-intense geomagnetic storms and "energetic particle events," such as coronal mass ejections (CMEs), NASA scientist Nat Gopalswamy said.

"The weak activity of Cycle 24 is thought to be due to the weak polar magnetic field in Cycle 23," an AGU news release explained. "If this trend continues for the next couple of cycles, the Sun may be heading for a global minimum."

PS: Editors note...

For those that may have missed it in Decembers (last months) newsletter, go back and read my satire on Sun Spot Cycles and HF propagation. It was the Feature Article titled [Waxing and Waning with Amateur Radio](#).

73, Val K7HCP



Radio Frequency Interference (RFI)

As our lives become filled with technology, the likelihood of electronic interference increases. Every lamp dimmer, garage door opener or other new technical “toy” contributes to the electrical noise around us. Many of these devices also “listen” to that growing noise and may react unpredictably to their electronic neighbors, including Amateur Radio transmitters.



Sooner or later, nearly every active Amateur Radio operator will have a problem with interference. This could involve interference to a neighbor's equipment, or, more likely, some form of interference to Amateur Radio from the noisy devices that can sometimes even be found in our own homes. The good news is that most cases of interference can be cured! The proper use of “diplomacy” skills to communicate with a neighbor and standard technical cures will usually solve the problem.

Continued...

The FCC & RFI

If local law attempts to regulate RFI from your station, if a neighbor threatens to sue you or if you feel that your local police are involved in an RFI problem, the following information will guide you through the steps you can take and the help the League can offer Amateurs.

[Federal Communications Commission rules](#) that apply to FCC preemption of local laws about RFI. It was prepared as a membership service by the [ARRL Regulatory Information Branch](#) at ARRL HQ. If you do have a regulatory problem that involves RFI, you need the information on this Web page. If local law attempts to regulate RFI from your station, if a neighbor threatens to sue you or if you feel that your local police are involved in an RFI problem, the information on this page will guide you through the steps you can take and the help the League can offer ARRL members. The bottom line is that under Federal law, only the FCC has the authority to regulate interference or write laws governing interference from licensed Amateur Radio operators. Remember, however, that the contents of this page do not constitute legal advice or aid which can only be given by a lawyer.

Who's Responsible for RFI?

In one word -- everyone. Everyone involved in an interference problem may have responsibilities and they must address those responsibilities fairly if a solution is to be found. Over and above the letter of the law, the FCC encourages an atmosphere of cooperation and trust when it comes to resolving RFI problems. In many cases, responsibility may be shared between various people involved in the problem, but often to varying degrees. For examples, if an electrical noise generator is the source of the interference, it is the responsibility of the device operator to rectify the problem. If the amateur transmitter is being operated in a completely legal manner using good engineering practice, the interference is probably caused by design deficiencies in the affected device, often fundamental overload.

Amateur-to-Non-Amateur Interference

This is what most hams mean when they say "RFI." Many amateurs are all too familiar with amateur-to-non-amateur interference; some have received the dreaded phone call or knock on the door from an irate neighbor advising them of an RFI problem. As with the other classifications of interference, there is a strong regulatory component. When faced with an RFI situation from a nonamateur, the first reaction from the consumer is "It's your fault." The logical reply from an amateur is "Not necessarily." The ARRL recommends that hams who are confronted by a concerned neighbor first read through the information on the ARRL Technical Information Service pages on RFI.

Historical Item if Interest

Fellow club member Rick Hansen, N7EGA sent me some old Ogden Amateur Radio Club (OARC) newsletters for possible inclusion in the club history. Included in the OARC items were two old newsletters from his days with Army MARS. Ricks description in one of them regarding the closing down of the Defense Depot's Army Military Auxiliary Radio System (MARS) shack caught my eye and is included below along with the status of some of their repeaters.

Was I surprised when I noticed what the MARS acronym stood for. I was an Air Force MARS member back in the late 1960s and I thought all along that it was the Military "Affiliate" Radio Service (emphasis added), but I noticed on the MARS logo that it says Auxiliary.

Key: for the 1997 newsletter that follows ... next page ...

EI: Essential Elements of Information

DDOU: Defense Depot Ogden Utah

Digi: packet radio (digipeater)

TNX, Kent Gardner, WA7AHY, OARC Historian

ARMY MARS Newsletter (EI) follows:

Utah! EEI

Autumn 1997/ Issue II

IN THE NEWS

Close out of the MARS station at DDOU (AAR8USC)

In June Dave Raab, Elwood Fronk, Steve Carver, Lowell Maw, and myself cleaned out the MARS warehouse Bldg 114 and the MARS radio shack Bldg 101 on DDOU.

While we found many treasures a lot of what we saw was the remnants of memories: logs from the early 70's - QSL cards with franked postage of the Defense Supply Agency - old QSTs and manuals of "boat anchor" radios, We even found the sound proof booth intact.

We cleaned and inventoried and sorted and (UGH!) loaded equipment and supplies for use elsewhere. The signs of disuse were everywhere. HuantaVirus was foremost on our minds when we cleaned out the warehouse. Signs of recent mouse reproduction were evident in the file cabinets and nooks/crannies. No one got sick but the fear was still there.

As part of this project I requested that the Depot let a contract to relocate all of their antennas that were located on our (white and red) tower to some other location. After a good deal of pressure from me they did install a wooden 'telephone' pole and hired an engineering firm from SLC to redesign their antennas. They spent the greater part of two days redoing everything but now our antenna tower is ready to go to Camp Williams. Our antenna and rotor is also ready to go.

A great number of man-hours was expended getting the "stuff" out and everyone involved should be congratulated for their hard work. It was sad seeing the AAR8USC station go down permanently. I heard (and observed from the logs) that it was a very active station in the 70's and served ARMY MARS very well. It was hard to send that last station report to DLA (Defense Logistics Agency) to inform them that we were down forever. An era ended then as the last MARS station on a DLA depot closed.

Thanks to all who helped.

Rick AAR8KE

SYSTEM STATUS

OK, here's everything as I know it.

Francis Peak: Repeater up and operational Digi up and operational

Williams Peak: Repeater up and sometimes operational (it likes to overheat and quit for a while) Digi doing fine.

Logan: System operating again. Had a bad disk drive. Working GREAT!

Syracuse: System working on all 4 frequencies.

BlackCrook: Digi up and operational, need to change some parameters in the TNC (including SYSOP phrase)

Southern Utah: We still do not have a new

station set up down south. If you have an ITF and a VHF rig that you can dedicate as a Message Center please contact Dave and myself so we can get you the computer and configure the software.

The only problem is that they are not used enough. We can only detect problems with the system if there is enough usage to FORCE it to go. Do we want to wait until we actually need the stuff and have it break down in the middle of an emergency? Gonna be hard to effect repairs in that situation and we'll all be up pooh-pooh creek when/if that happens.

73 Bill AAR8DJ

GUEST ARTICLE by KB6NU

Protect your gear from ESD

Electrostatic discharge, or ESD for short, has been a concern for anyone involved in electronics ever since we made the transition from vacuum tubes to transistors. I was schooled about ESD when I worked as a test engineer for a company called Doric Scientific shortly after I got out of engineering school, and I wrote about it when I was an editor for Test&Measurement World magazine back in the 1990s. If anything, it's even more of a concern today as electronic components get ever smaller.

In 1991, Bryan P. Bergeron, NU1N, published a two-part series on ESD (part 1: <http://www.arrl.org/files/file/Technology/tis/info/pdf/9104019.pdf>, part 2: <http://www.arrl.org/files/file/Technology/tis/info/pdf/9105028.pdf>) in QST. His suggestions about how to prevent ESD damage are as good now as they were 20 years ago:

- Consider using a room humidifier to increase the relative humidity in your shack, or wherever you work on electronic equipment to 65% RH or higher.
- Use grounded wrist straps when handling ESD-sensitive devices.
- Use grounded, anti-ESD work mats when working on electronic equipment.
- Use a grounded soldering iron and anti-static tools.
- Use anti-static bags and containers for storing and transporting electronic equipment.
- Connect the chassis of all your gear to a good earth ground.
- Consider purchasing a desktop ionizer to neutralize static buildup on your workbench.

I might also add consider grounding the chairs that you use in your shack or discharging yourself after getting up from the chair in your shack. I know that the worst electrostatic discharges that I experience are after I get up from my chair. You can even buy ESD-safe chairs (http://www.all-spec.com/products/Benches_and_Chairs%7CChairs_and_Accessories%7CCHR-00/), but they are kind of expensive.

Personally, I use an anti-static mat that I originally purchased for use with a computer keyboard and a wrist strap that was given to me by an ESD consultant when I worked for the magazine. I use these religiously when building kits or working on any solid-state gear.

It's not hard to find anti-static products. RadioShack sells a wrist strap for only \$1.23 (<http://www.radioshack.com/product/index.jsp?productId=2103245>)! You can find a whole range of anti-static products on Amazon, too. Wherever you get them, they're a good investment.

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Dan, KB6NU enjoys teaching amateur radio classes and working CW on the HF bands. For more information about his operating activities and his "No-Nonsense" series of amateur radio license study guides, go to KB6NU.Com or e-mail cwgeek@kb6nu.com.

FEATURE ARTICLE

Teaching a Morse Code Class to Jr High students

By Mike Fullmer, KZ7O

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 teaching them that if someone speaks 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.

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.

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 September - August. (Ham + spouse = \$25.)

Consider the OARC Family plan for \$25.

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

Club Badges

OARC Club badges are still 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 webmaster or any club officer via email or see them at the next club meeting. For additional information see club website left side menu and click "Join".

OARC web site www.ogdenarc.org "Club Officers" page, and "Join" page.

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**.

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: **-146.90 (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 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			
FREQ	CLUB	TON E	LOCATION
146.900-	OARC "Talk-in"	123.0	Mt Ogden
448.600-	OARC	123.0	Mt Ogden
146.820-	OARC	123.0	Little Mtn (w/auto patch)
448.575-	OARC	100.0	Little Mtn (w/auto patch)

OTHER AREA REPEATERS			
FREQ	CLUB	TON E	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	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	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 @ 8:00 PM	GS ARC	145.290-, 145.430-, 448.300- (all 123.0)
Wednesday @ 8:30 PM	CSEARG	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: Larry Griffin AD7GL

Vice Pres: Gil Leonard NG7IL

Secretary: Gary Hudman WB7FMS

Treasurer: John Shupe K7DJO

Program Director:

Pete Heisig WB6WGS

Activity Director:

Jason Miles KE7IET

"WATTS NEWS" e-Magazine

NL Editor: Val Campbell K7HCP

"OARC" web site

Webmaster: Val Campbell K7HCP

OTHER CLUB APPOINTMENTS

Equipment Manager: Val Campbell K7HCP

Historian/Librarian: Kent Gardner
WA7AHY

Photographer: John Shupe K7DJO

QSL Manager: John Shupe K7DJO

Repeater Engineers: Mike Fullmer KZ7O
Scott Willis KD7EKO

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

Advisors: Stan Sjol W0KP
Mike Fullmer KZ7O
Kent Gardner WA7AHY
Kim Owen KO7U
Dave Woodcock WY7P

Club Call Sign Trustee: Larry Griffin AD7GL

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www.OgdenArc.org