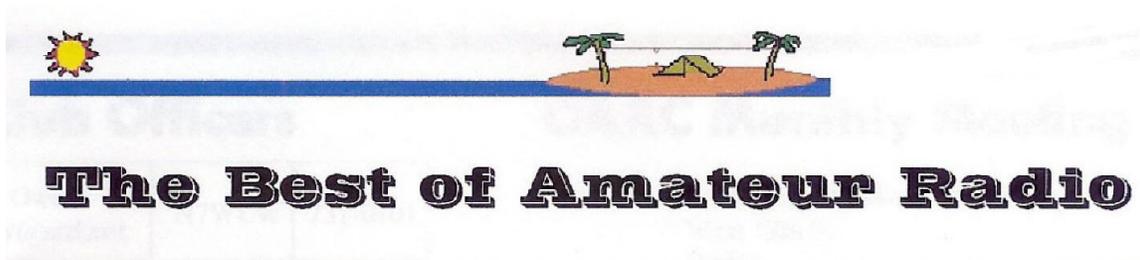




# WATTS NEWS



*Welcome to the OARC e-Magazine*

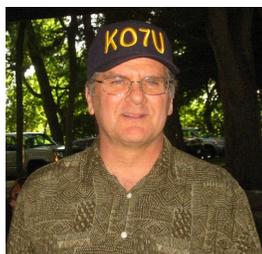
[www.OgdenArc.org](http://www.OgdenArc.org)

**JUNE 2012**

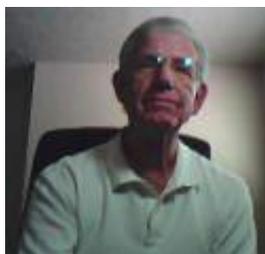
Next Club Meeting/Activity

**Saturday/Sunday 23/24 June 2012**

Topic: **ARRL Field Day Event**



Kim Owen K07U  
President



Larry Griffin AD7GL  
Vice President



Gary Hudman KB7FMS  
Secretary



John Shupe K7DJO  
Treasurer



Gil Leonard NG7IL  
Program Director



Dave Woodcock WY7P  
Activity Director



Val Campbell K7HCP  
Webmaster/NL Editor

# PREVIOUS CLUB MEETINGS

3rd Saturday 19 May 2012

- (1) Golden Spike special event station W7G 2012 experiences
- (2) Field Day activity planning



# NEXT CLUB MEETING

**When:** 3rd Saturday/Sunday 23/24 June 2012  
**Time:** 12:00 noon Saturday to 12:00 noon Sunday

- please come help setup antennas @ 9:00 am Saturday
- Dinner 6 pm Saturday evening
- come help with take-down @ Noon Sunday

**Location:** Marriott Park (1065 S 1200 W)  
(just north of 12<sup>th</sup> street on 12<sup>th</sup> west, west side  
across from the main IRS parking lot)

**Topic:** ARRL Field Day 24 Hour Event

**Activity:** ARRL Field Day - sponsored by Ogden ARC

**Note:** Dinner main course and drinks provided ... 6:00 pm Saturday evening.  
*However ... Please bring a side dish to share (salad, fruit, desert, side dish, no chips please).  
Don't forget to bring your own dinner-ware (paper-ware provided),*

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## 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](#). Instructions for mailing it are on the form.

**DUES:** Dues are \$15.00 per person and runs September - August.  
Additional family members are \$8.00 each.

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

## FROM KIM'S SHACK



Kim Owen K07U - President

CQ ALL Members and Friends of OARC

Club meeting will be Field-day this month. We will be at Marriott Park, just west of the IRS on 12<sup>th</sup> street. Check the web page for the address. The contest starts at noon Saturday and ends noon Sunday. We will need help with setup and clean-up. If you never setup a station before, come out and help or just watch. We need some help with cleanup Sunday too. Also, don't miss the highlight of the night, dinner at the Field-day site Saturday night - bring your favorite side dish. Spend the night if you wish. The air waves are always busy. If you have a Technician License, this is a great chance to see the fun on the lower HF bands. We will be running on the club call sign W7SU. This is the biggest Amateur Radio event during the year! I hope to see you there!

A special thanks to Dave/WY7P for the coordination, work and time that he has put in for this event.

Just a couple more reminders, the meeting in July we will have our Fox Hunt Breakfast and August our meeting will be our summer steak fry and club elections. I want to encourage any club member interested club leadership to contact our club secretary Gary/KB7FMS for information.

For now,  
73 de Kim/Ko7U

## CLUB NEWS

Last months Golden Spike Special Event Station W7P QSL cards received are now posted on club website. Be sure to check them out.

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**Congratulations to the following HAMS that successfully licensed or upgraded during the most recent Weber County VE Test Session.**

|                     |        |         |
|---------------------|--------|---------|
| Willis, Scott L     | KD7EKO | Extra   |
| Dipoma, Dewey L     | KF7KPQ | General |
| Mohr, Albert G      | KF7WJH | General |
| Olsen, Jim E        | KC7GGQ | General |
| Tracy, Aaron M      | KC7MLE | General |
| Alexander, Robert W | KF7WIL | Tech    |
| Dowell, Scott D     | KF7WII | Tech    |
| Dowell, William L   | KF7WIJ | Tech    |
| James, Michael K    | KF7WIH | Tech    |
| Jones, Daniel D     | KF7WIK | Tech    |
| Sohl, Ian A         | KF7WIG | Tech    |

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**Utah Hamfest July 2012 (bryce Canyon - Ruby Inn)**

[www.UtahHamfest.org](http://www.UtahHamfest.org)

## 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 any club officer via email or see them at the next club meeting. See web site [www.ogdenarc.org](http://www.ogdenarc.org) "Club Officers" page.

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## Club Swapmeet

### "SALE" or "WANTED" ITEMS NEEDED

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

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

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# HOBBY NEWS

## FCC Downgrades Hawaiian Ham's License

On June 18, the FCC issued an [Order of Modification](#), modifying the license class of Todd Wilson, WH6DWF, of Honolulu, Hawaii, from General to Technician. This stems from an [Order Proposing Modification released in March 2012](#) where the [FCC stated](#) that granting General class Amateur Radio operator privileges to Wilson was improper.

In November 2011, the ARRL VEC sent an electronic data file to the FCC, requesting that the FCC issue a Wilson a new General class license. Based on this application, the FCC granted Wilson a General class license on November 29, 2011. In January 2012, the ARRL VEC notified the FCC that Wilson's information was incorrect and he did not qualify for a General class license; the ARRL VEC asked the FCC to modify Wilson's license to show him to hold a Technician class license.

The FCC said that Section 316(a)(1) of the Communications Act of 1934, as amended provides the appropriate vehicle for resolving this matter. Section 316(a) permits the Commission to modify a station license if the action will promote the public interest, convenience, and necessity. We believe that modification of the license for amateur station WH6DWF to replace General class operator privileges with Technician class operator privileges is appropriate.

In accordance with [Section 1.87\(a\)](#) of the FCC's Rules, the FCC noted that it would not issue a *Modification Order* until Wilson has received notice and has had an opportunity to file a protest. He was given until April 14 -- 30 days -- to protest the modification to his license by submitting a written statement with sufficient evidence to show that the modification would not be in the public interest. When Wilson did not respond within the 30 day timeframe, the FCC said that Wilson is deemed to have consented to the proposed modification. Based on the record before us, we conclude that it is in the public interest to modify the license for Amateur Radio Service Station WH6DWF by changing the authorized operating privileges from General class to Technician class.

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# MORE HOBBY NEWS

## **ENFORCEMENT: BRUNEI GOING AFTER UNLICENSED MOBILE OPERATORS**

The Brunei government says that it is cracking down on anyone found operating amateur radio gear without government authorization. Members of that nation's citizenry who are convicted of illegal use of amateur radio equipment without a license from the Authority for Info-communications Technology Industry of Brunei Darussalam or AITI will face a maximum fine of 10,000 Brunei dollars, up to three years imprisonment, or both.

This new anti pirate operating campaign appears aimed primarily at those unlicensed individuals who use mobile gear on the VHF and UHF amateur bands. It was announced by the AITI during a briefing on the first of several joint operations with the Berakas Police to crack down on illegal use of radio equipment. The operations involved a dedicated corps of sixteen police personnel and seven AITI officials. (Borneo Bulletin)

## **RADIO LAW: DJ6SI VS. GREECE - THE COURT DECISION**

A court decision in the case of DXer Baldur Drobnica, DJ6SI, who stood trial last week in Greece on three charges involving his operation of an amateur radio station on the vacation island of Kos. The three crimes he was eventually charged with were conducting radio traffic without permission from the Greek Government. Operating a transceiver that covered more spectrum than just the ham radio bands permitted by Greece and his refusal to surrender his equipment to the officer who investigated the incident.

According to a note posted to the Internet by his attorney, Drobnica was acquitted on counts 1 and 2 after the court ruled that he was a properly licensed radio amateur. However he was convicted on the third count of refusing to surrender his equipment to the arresting officer.

No word of what penalties if any were imposed on the single count conviction. However his lawyer is reported to already have filed an appeal on count three and the court is expected to hold a separate trial on this issue at a later date.

Please keep in mind that this report is based on multiple language translations beginning in Greek with some of it electronic. As you all know, the latter have been known to leave you wondering if the translation is completely accurate. One report in translated English is on-line at [tinyurl.com/dj6si-verdict](http://tinyurl.com/dj6si-verdict). (SV5BYR)

# GUEST ARTICLE

By Dan KB6NU

## Dayton Hamvention 2012: Another great ham radio experience

My Dayton experience started at 3:45 am Thursday morning. That's when I had to get up so that I could make it to the Fairborn Holiday Inn in time for the first session of this year's Four Days in May (FDIM) conference. FDIM is a one-day conference put on by the QRP Amateur Radio Club International (<http://qrparci.org/>) and is a great way to start the "Dayton experience."

This year, we were treated to six very fine presentations. They included talks on using microcontrollers for various projects, software-defined radio, VHF and UHF for QRPers, homebrewing with "hollow state" devices (more commonly known as tubes), using open-source electronic design tools, and operating pedestrian mobile. The two talks that I enjoyed the most were "Hollow State (Thermatron) Homebrewing" by Grayson, TA2ZGE/KJ7UM and "Leveraging Free and Open Source Tools in Homebrewing" by Jason, NT7S.

Friday morning, I got up early again, so that I could make the 7:30am bus to the Hamvention. We arrived about 8:00 am, just as the gates were opening. The first thing that I did was to head to the FAR Circuits tent, which is—as the name implies—at the far end of the flea market. There, I made my first purchases, a board to make a regenerative receiver and one to make an audio breakout box.

The rest of the day was a combination of wandering the aisles of the outdoor flea market, fighting the crowds inside the arena, attending seminars, and meeting people that I know. By the time, 4:30 pm rolled around, I was pretty hot and tired. Temperatures topped 80 degrees, and on the blacktop surface of the flea market, temperatures were undoubtedly higher. I was happy to get on the bus and head back to the hotel.

Saturday, was pretty much the same story, except it was even hotter. The temperature almost hit 90 degrees. I didn't bring any sunscreen, either, so I got a little rosy.

I ran into some people that I knew that had just come down for the day, or perhaps that I'd missed the day before. One guy I ran into at the Ohio Repeater Council booth, pulled out his new Elecraft KX-3 and gave me a quick demo. It's actually quite a cool, little radio. I'm still saving up for a K-3, though.

Around noon, I went to the food court for a slice of pizza and a glass of beer. Seating is catch as catch can, so I shared a table with several other hams. This is great because you get to meet all kinds of different people.

This year, an older gentleman sat down next to me with his beer. We got to chatting, and as it turned out, this was his 55th straight year attending the Dayton Hamvention! He started going before it was even held at Hara Arena, and even after they moved to Hara, they didn't use the entire facility as they do now. I'm really glad that I got to speak with him.

So, what did you buy?

I didn't really go down to Dayton with much of a shopping list. In addition to the PC boards, I did pick up a bunch of other little stuff including some strain reliefs, more clamp-on ferrite cores, a paddle pad from Vibroplex (\$1) to keep the paddle down at the club station from sliding around, and some tube sockets! One of the vendors there had a box of tube sockets that they were selling for a quarter apiece or five for a dollar. I picked out five and paid the lady, and as I was walking away, I decided that they were such a good deal that I went back and bought five more.

My biggest purchase was NT7S's OpenBeacon QRSS transmitter ([www.etherkit.com](http://www.etherkit.com)). It cost me \$40. It looks like a very nice kit, and I'm hoping to be on 30m QRSS shortly with it. The nice thing about this transmitter is that it has a microcontroller that lets it transmit DFCW and Hellschreiber, in addition to CW. It should be fun to both build and operate.

Too rich for my blood

In other news, both Kenwood and FlexRadio both introduced new radios at Dayton. Perhaps the most buzz was around the Kenwood TS-990. All they were showing was a prototype under a Plexiglass cover. In addition to being incredibly expensive, the radio is huge! I heard someone joke that to produce this radio, Kenwood is going to have to corner the market on buttons and knobs. If you've seen the photo in QST (which was allegedly produced with Photoshop), you'll know what I mean.

The other radio with a bit of buzz is the new FlexRadio FLEX-6000. For the past couple of weeks, the FlexRadio website was proclaiming that this radio was going to be a game changer. Perhaps it is, but at \$6,000+, this radio is out of my league, and too expensive for the majority of radio amateurs. That being the case, I really don't know what all the buzz is about.

I'm sure that the TS-990 and the FLEX-6000 are both great radios, but I think that the law of diminishing returns applies here. At some point, are you really getting \$6,000 or \$12,000 of fun out of the radio? I don't think that I would.

Well, that's it. Another Dayton Hamvention is in the bag. It was a lot of fun, and I'm already looking forward to next year. I've already contacted one of the forum organizers about adding an adult education forum. I think that's something that's both needed and would be popular. I'll just have to make sure to leave enough time to hit the flea market and grab some more tube sockets or coax or whatever.

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When he's not tromping around flea markets, or attending conferences, Dan, KB6NU, writes books about ham radio. His latest, 21 Things to Do After You Get Your Amateur Radio License, is available as an e-book from Amazon, Barnes&Noble, or from his website, <http://www.kb6nu.com/>. You can e-mail him with comments, questions, compliments, or brickbats at [cwgeek@kb6nu.com](mailto:cwgeek@kb6nu.com).

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# ANNOUNCEMENTS

## Next Club Meeting:

**Sat/Sun 23/24 June 2012**

- The Ogden Amateur Radio Club meetings are usually held on the 3<sup>rd</sup> Saturday of each month.

- **Time: Sat Noon to Sun Noon**

- **Location: Marriott Park**

- **Topic: ARRL Field Day Event**

- **Talk-in: -146.90 (pl 123.0)**

Check OARC web site for details

[www.ogdenarc.org](http://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 06 June 2012**

- 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: New for June & October 2012**

**Ogden Public Safety Building  
2186 Lincoln Ave Ogden Utah**

**Contact: VE Liaison:**

**Mary Hazard**

[w7ue@arrl.net](mailto:w7ue@arrl.net) (801-430-0306)

**Rick Morrison**

[morrisonri@msn.com](mailto:morrisonri@msn.com)  
(801-791-9364)

**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.

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## Club Web Site

Be sure to visit our club web site.

- [www.OgdenARC.org](http://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<br>"Talk-in" | 123.0 | Little Mtn<br>(w/auto patch) |
| 448.575-       | OARC              | 100.0 | Little Mtn<br>(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-             | 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   |
| 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<br>County | 100.0 | Lewis Peak      |

**AREA CLUB MEETINGS & WEB SITES**

| CLUB                   | WEB SITE   | DATE/TIME   | LOCATION   |
|------------------------|--|---|--|
| OgdenARC               | <a href="http://ogdenarc.org">ogdenarc.org</a>                               | 3 <sup>rd</sup> Saturday 09:00 am                       | Check OARC web site ...  |
| WC ARES                | <a href="http://ogdenarc.org/join.html#ares">ogdenarc.org/join.html#ares</a> | 2 <sup>nd</sup> Thursday 06:30 pm                       | Weber Co. Library<br>Ogden Utah                                      |
| WC Sheriff<br>Comm-O   |  | 1 <sup>st</sup> Saturday 10:00 am                       | Weber Co. Sheriff Complex<br>West 12 <sup>th</sup> Street Ogden Utah |
| Barc                   | <a href="http://barconline.org">barconline.org</a>                           | 2 <sup>nd</sup> Saturday 10:00 am                       | Cache Co. Sheriffs Complex<br>200 North 1400 West Logan Ut           |
| CSERG                  | <a href="http://dcarc.net/ares.htm/">dcarc.net/ares.htm/</a>                 | Last Wednesday 8:30pm                                   | Clearfield City Hall<br>Clearfield Utah                              |
| DCarc                  | <a href="http://dcarc.net">dcarc.net</a>                                     | 2 <sup>nd</sup> Saturday 10:00 am                       | Davis Co. Sheriff Complex<br>Farmington Utah                         |
| NU Ares                | <a href="http://home.comcast.net/~noutares/">home.comcast.net/~noutares/</a> | 3 <sup>rd</sup> Wednesday 7:00 pm                       | Cache Co. Sheriff Office<br>Logan Utah                               |
| Uarc                   | <a href="http://xmission.com/~uarc/">xmission.com/~uarc/</a>                 | 1 <sup>st</sup> Thursday 7:30 pm                        | UofU EMC Bldg Room 101<br>Salt Lake City Utah                        |
| GSarc                  | <a href="http://Ubetarc.org">Ubetarc.org</a>                                 | Check Website   | Check Website  |
| Utah DX<br>Association | <a href="http://udxa.org">udxa.org</a>                                       | 3 <sup>rd</sup> Wednesday<br>check web page for details | check web page for details<br>Salt Lake City area                    |
| UvhfS                  | <a href="http://ussc.com/~uvhfs/">ussc.com/~uvhfs/</a>                       | Each Tuesday 8:00 pm<br>(refer to web site)             | Weekly 2 meter net<br>(no eye ball meetings)                         |
| WDArc                  | <a href="http://westdesertarc.org/">westdesertarc.org/</a>                   | 1 <sup>st</sup> Tuesday 7:00 pm                         | Tooele County Courthouse<br>Tooele Utah                              |
| WsuArc                 | <a href="http://arcweber.edu">arcweber.edu</a>                               | 3 <sup>rd</sup> Thursday 5:30 pm                        | WSU Blding #4 Room ?<br>Ogden Utah                                   |

## LOCAL AREA NETS

| DATE                     | CLUB                    | FREQ  |
|--------------------------|-------------------------|---|
| Daily @ 12:30 PM mt      | Utah Beehive net HF     | 7.272 Mhz <b>HF LSB</b>   |
| Daily @ 07:30 PM mt      | Utah Code net HF        | 3.570 Mhz <b>HF CW</b>  |
| Daily @ 02:00 UTC        | Utah Farm net HF        | 3.937 Mhz <b>HF LSB</b>   |
|                          |                         |   |
| Sunday @ 8:45 AM         | Ogden Old Timers HF net | 7.193 Mhz <b>HF LSB</b>   |
| 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           | 147.060 = 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 <b>2-meter USB</b>  |
|                          |                         |   |
| <b>Tuesday @ 8:00 PM</b> | <b>Weber ARES</b>       | <b>448.600 - 123.0</b>  |
| Tuesday @ 8:00 PM        | VHF Society Swap        | 147.120 + 100.0   |
| Tuesday @ 9:00 PM        | Bridgerland ARC         | 147.260 + 103.5   |
|                          |                         |   |
| Wednesday @ 8:00 PM      | GS ARC                  | 145.290-, 145.430-, 448.300- (all 123.0)  |
| Wednesday @ 8:30 PM      | CSERG                   | 145.770 simplex   |
| Wednesday @ 9:00 PM      | No. Utah 10m HF net     | 28.313 Mhz <b>HF USB</b>  |
| Wednesday @ 9:00 PM      | 6-meter SSB net         | 50.125 Mhz <b>6-meter USB</b>   |
|                          |                         |   |
| Thursday @ 6:30 PM       | Davis Co Elmers Net     | 147.040 + 123.0 <b>New Hams</b>   |
| 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<br>3 <sup>rd</sup> 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 <b>HF LSB</b><br>3 <sup>rd</sup> Saturday – odd months only           |
| Saturday @ 11:00AM mst   | QCWA net HF             | 7.272 Mhz <b>HF LSB</b>   |

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*OARC OFFICERS*

President: Kim Owen KO7U

Vice Pres: Larry Griffin AD7GL

Secretary: Gary Hudman WB7FMS

Treasurer: John Shupe K7DJO

Program Director:  
Gil Leonard NG7IL

Activity Director:  
Dave Woodcock WY7P

*"WATTS NEWS" e-Magazine*

NL Editor: Val Campbell K7HCP

*OTHER CLUB APPOINTMENTS*

Webmaster: Val Campbell K7HCP

Historian/Librarian: Kent Gardner WA7AHY

Advisor: Kent Gardner WA7AHY

Advisor: Stan Sjol WOKP

Photographer: John Shupe K7DJO

QSL Manager: John Shupe K7DJO

Equipment Manager: Val Campbell K7HCP

Repeater Engineer: Mike Fullmer KZ7O

VE Liaison: Mary Hazard W7UE and  
Richard Morrison W7RIK

Club Call Sign Trustee: Larry Griffin AD7GL

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**73 es cul de W7SU**

[www.OgdenArc.org](http://www.OgdenArc.org)