

WATTS NEWS



The Best of Amateur Radio

OARC e-Magazine

www.OgdenArc.org

FEBRUARY 2016

Next Club Meeting/Activity

Meeting: Code Enforcement: Solar Panels, Antennas, Grounding



Gil Leonard NG7IL
President



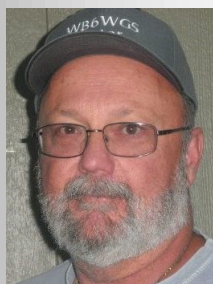
Jason Miles KE7IET
Vice President



Mike Taylor KE7NQH
Secretary



Jerry Cottrell KG7IGW
Treasurer



Pete Heisig WB6WGS
Program Director



Dave Mamanakis KD7GR
Activity Director



Val Campbell K7HCP
Webmaster/NL Editor

PREVIOUS CLUB MEETING

Meeting: Ham Radio & Satellites

by Stan Sjol W0KP

Date: 3rd Saturday 16 January 2016

Time: 9:00 AM

Location: Riverdale Fire Station

NEXT CLUB MEETING/ACTIVITY

Meeting: Solar Panels, Antennas, Grounding

Code Enforcement by Doug Smith

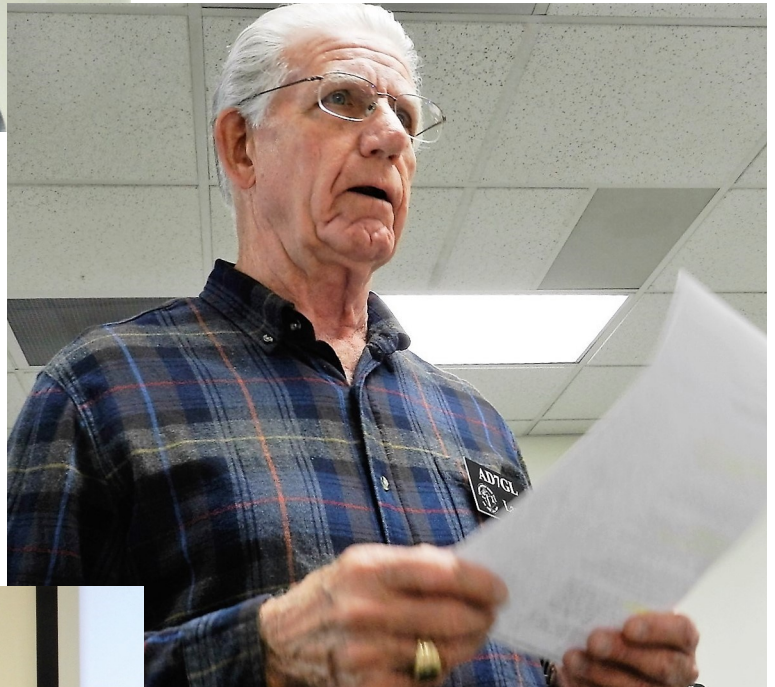
Date: 3rd Saturday 20 February 2016

Time: 9:00 AM

Location: Riverdale Fire Station

PREVIOUS MEETINGS PICS

Photos by ... John Shupe K7DJO



Amateur Radio Satellites

Ogden Amateur Radio Club

January 16, 2016





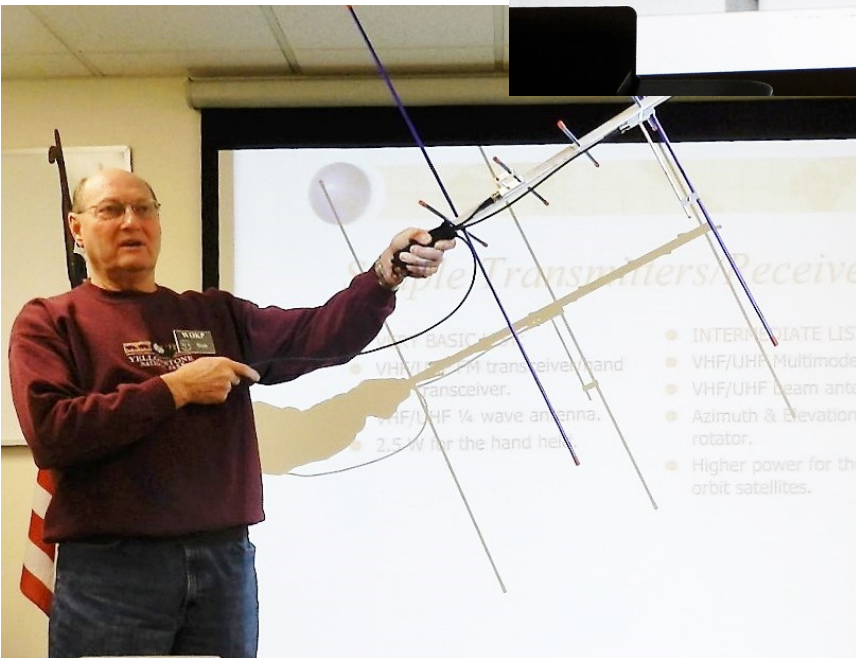
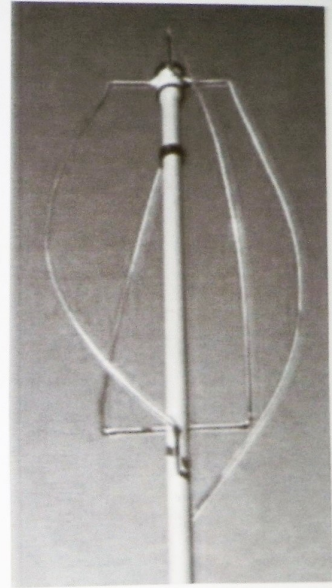
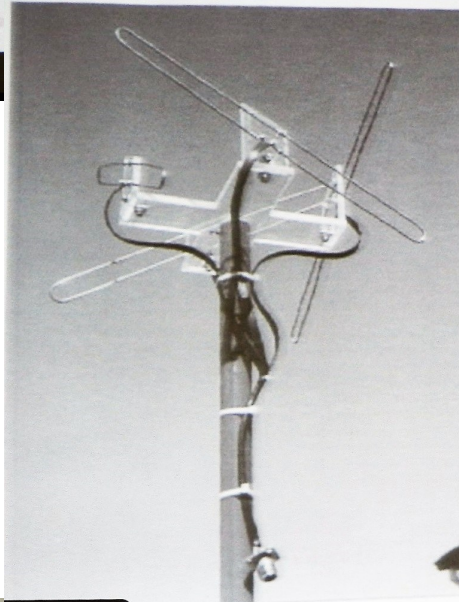
Ideal Ground Station for LEOs

- Cross beam or circularly polarized Yagi or helical
- Computer tracking system
- Computer controlled AZ-EL rotators
- Full-duplex dual band radio computer controlled tuning
- TNC and Soundcard Interface for TLM and Packet
- APRS Software
- Mast mounted receiver preamps (Rule of thumb - it's better to have big ears than a big mouth.)



Photo courtesy of K6IA

Copyright © Emily Clarke 2





QRM from Gil



Gil Leonard NG7IL

A great big thank you to Stan, W0KP, for his introduction to Amateur radio satellites and how to use them. I hope everyone will get out and give satellite operation a try. Personally, I picked up some great new information. I had seen the listings of the satellites carrying transponders but didn't understand how someone could work them until his presentation. I hope you all get out and give it a try.

By the time everyone reads this, our testing session will be over and we will have several new General Class license holders as well as some new Technician Class license holders. Congratulations to everyone who tested.

I would like to offer a great big thanks and congratulations to Jason, KE7IET, for a job well done. His license class went very well. We offered a drawing to those that attended as an incentive to participate. All items were donated and used to encourage folks and to help build their new stations. Thank you to all who participated and especially those who donated their time teaching.

Some of the dates coming up to put on your calendar are:

February 3, 2016 VE testing. Weber county Sheriff office,
721 W. 12th street. 6:00 pm.

February 20, 2016 Ogden ARC club meeting. Riverdale Fire Station. 9:00 AM

March 19, 2016 Ogden ARC club meeting. Riverdale Fire Station. 9:00 AM

QRM from Gil

continued

What keeps you interested in amateur radio? Are you a problem solver? Are you one who experiments with different modes? As a participant in local and regional nets, it is always interesting to see which bands are open and what affects them. Often times in order to check in to the various nets, direct check-ins are not possible. When this happens it becomes necessary to find alternate paths or ways to communicate. At these times the best you can do is try to make contact with an alternate station that you can hear and get them to relay your information into net control. Other options would be to rotate your antenna or try a different one.

FM and SSB are certainly some of the most popular modes of operations. Digital modes are quickly becoming a mode of choice. There are a bunch of sound card modes available for experimentation. Digital modes are a great alternative to make contact when voice modes won't work. All it takes is a bit of experimentation. I hope you will give them a try.

Hopefully all of you will try something new that relates to amateur radio. This hobby has something that will appeal to and interest anyone. I hope to hear you on the airwaves. The more we use them, the more effective we become and the more we protect our band privileges.

73 de Gil

CLUB NEWS

This months meeting ...

Ratify OARC By-Law changes.

Please read and be prepared to vote on the enhancements to our clubs By-Laws. The changes involve the addition of “Duties and Responsibilities” of your elected officers.

The changes to the By-Laws are indicated in RED type and can be reviewed via a link found on the clubs homepage at the clubs website, right side column.

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

Thank you in advance,

Val Campbell K7HCP

CLUB NEWS

This months meeting ...

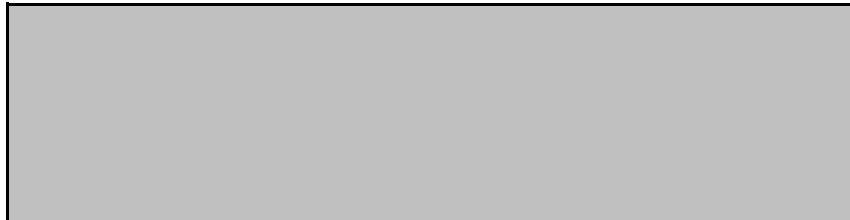
Solar Panels, Antennas, Grounding

Code enforcement

by Doug Smith

Doug has worked in the building safety and construction industries for more than 18 years. He is an ICC Certified Master Code professional, Certified Building Official, Combination Commercial Plans Examiner, Combination Commercial Inspector, Combination Residential Inspector, Residential Plans Examiner, Accessibility Inspector/Plans Examiner, Fire I and II Inspector, Fire Plans Examiner, and Energy Plans Examiner. He is also licensed by the State of Utah as a Combination Inspector. Doug is considered an expert on photovoltaic (PV) code requirements and has taught many classes on the subject. He has also developed a variety of template checklists to help the enforcement community better review and inspect PV systems.

OARC COMING EVENTS



Utah VHF Society

Swap Meet

4th Saturday 27 February

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



CLUB NEWS

Congratulations to the hams that tested at the OARC Weber Co VE Test Session 04 February 2016. (42 tested in total)

TECH (9 new)

Bergsjo, Kevin
Brown, Gerald
Gilchrist, Brad
Hales, Dan
Howard, Timothy
Ross, Vick
Spencer, Don
Whimpey, Jay
Yarosik, Robert

GENERAL (3 new, 15upgrades)

Andersen, Paul	KG7HHW
Clark, Jim	(new)
Hanzlik, Rich	N7NGK
Howard, Andrea	KG7LIG
Johnson, Malcom	KE7BXY
Lisonbee, Gene	KF7WLX
Mitchel, Kenneth	KF7HXD
Nay, Brent	KF7YYM
Neal, Michael	KI7AOX
Pilch, Andrew	KG7KDP
Rosier, Stephen	(new)
Sawyer, Lerrin	KG7JWZ
Sawyer, Zachery	KG7HYO
Siddle, Barbara	KB7FWW
Siddle, James	KG7CJN
Smith, Robert	KG7EIZ
Terrell, Martha	KG7QNR
Young, Stephen	(new)

CLUB NEWS



CW or CowBoy?

Interesting license plate, if you are ham radio minded.
Especially a Morse Code user.

Kent Gardner WA7AHY

HOBBY NEWS

ARRL 2016 Rocky Mountain Division Convention

Keystone Conference Center

May 13-15, 2016

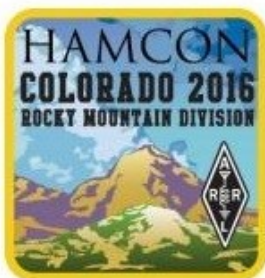
HamCon Colorado 2016

is coming to Keystone Conference Center in Keystone, CO

May 13 - 15, 2016

What a beautiful location to expand your knowledge of radio and meet up with hams from all over the Division and beyond.

Two action packed days of informational forums, nationally recognized speakers, opportunity to get on the air at the W1AW/Ø special event station, vendors galore, VE testing, fun contests and of course the Wouff Hong ceremony.



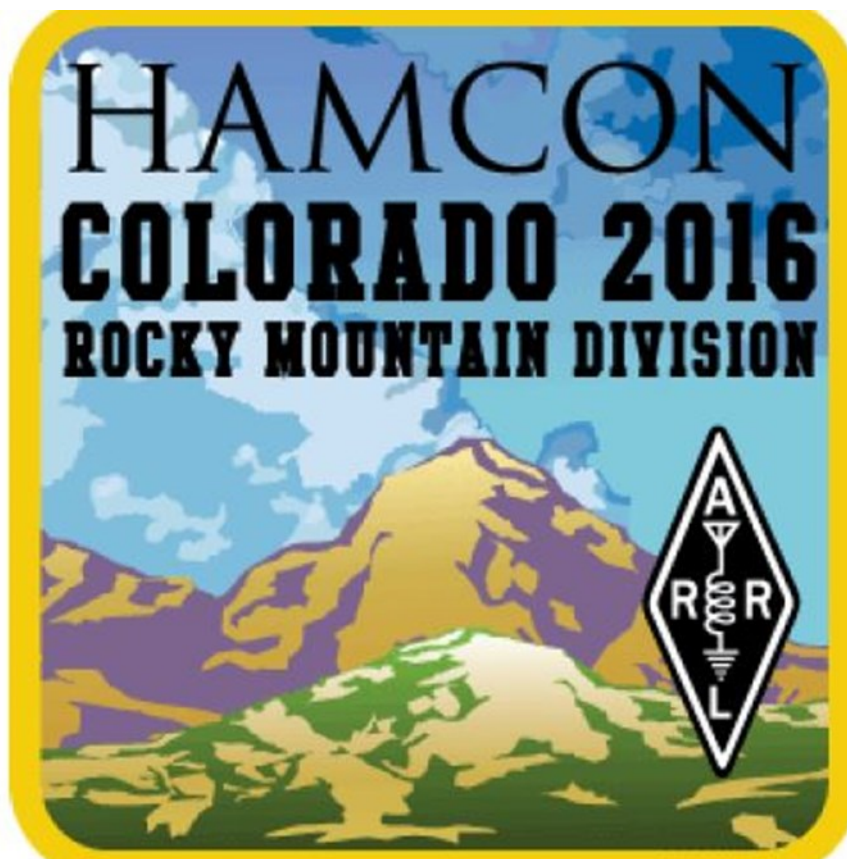
Register by February 12, 2016

To Receive:

- 1 Free Ticket for Early Bird Prize Drawing
- 1 Free Badge Lanyard
- 1 Free HamCon Commemorative Pin

Register Now At: www.hamconcolorado.org

HOBBY NEWS



Editors comments:

HAM CON 2016 Rates

Room Reservations: \$111 / night

Event Early Bird Registration: \$20

Food:

Friday Evening BBQ: \$36

Saturday Subway Lunch: \$33

Saturday Evening Banquet: \$46/\$48

Sunday Morning Breakfast: \$28

Unclaimed Club Badges

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



<p>KD7RPT, Sparky KF7HNU, Ralph KF7VAR, Amber KG7WXB, Jared</p>	<p>AC7Q0, Dave KT7JIM, Jim W7PYR, Jesse</p>
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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**.

FEATURED ITEMS

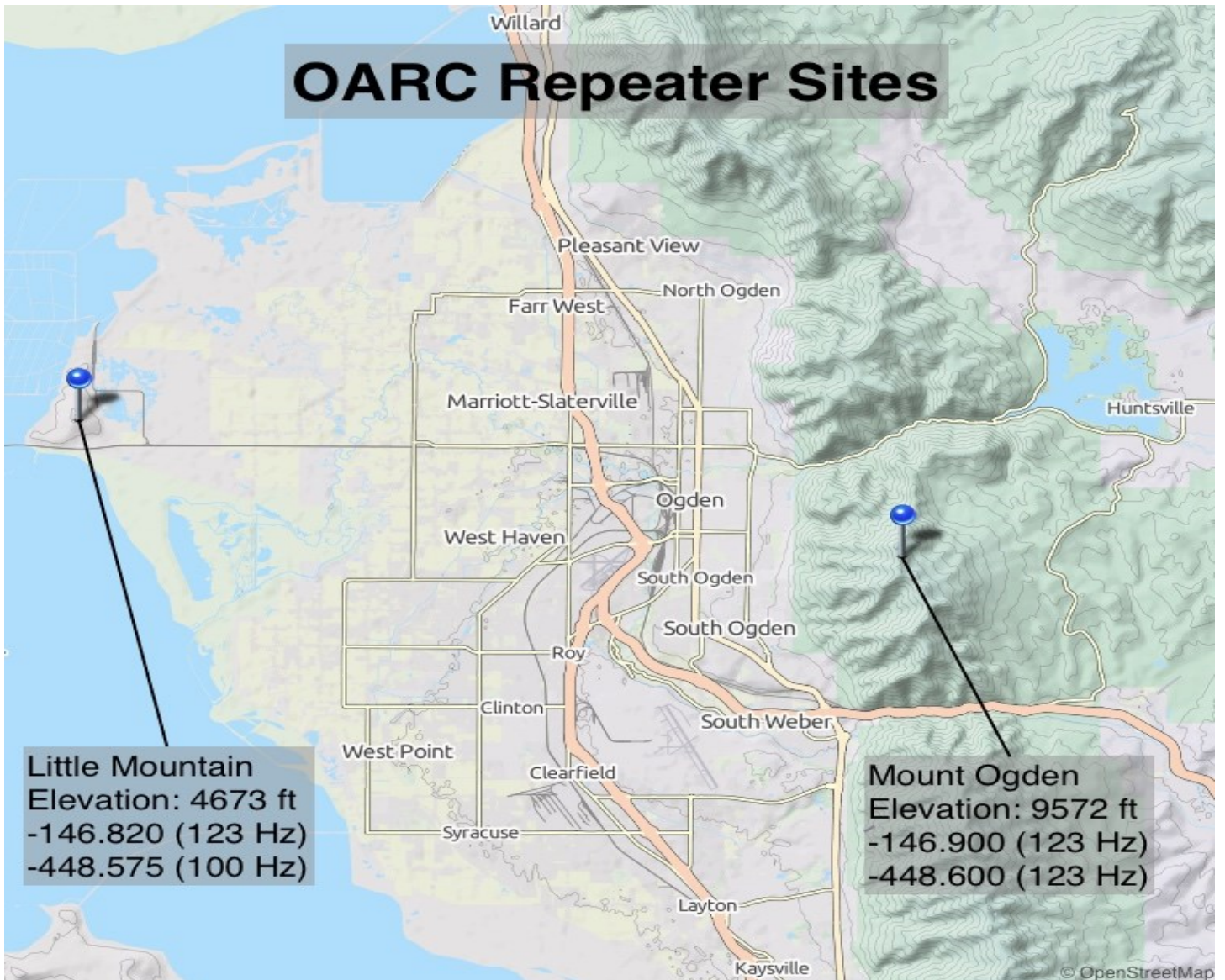
Your Sales/Wanted Item could be posted here.

NOTICE

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

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

CLUB REPEATER NEWS



Scott Willis KD7EKO



Mike Fullmer KZ7O

Scott Willis KD7EKO and Mike Fullmer KZ7O are the OARC repeater engineers that keep our club repeaters at Mt Ogden and Little Mountain operational.

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

Please stay tuned.

OARC YAHOO GROUP




Did you know that OARC has a Yahoo Group?

We occasionally communicate with our OARC members via the Yahoo Group. Receive notices regarding upcoming club meetings and future e-newsletter release notices and much more like CHAT items of interest.

You can also send/receive notices to/from other group members yourself.

It's easy to sign up...



Just click on the  icon at the top of the club website home page and then follow the Yahoo Group instructions to create yourself a user ID and password.

Club Badges

OARC Club badges are available for all licensed club members.

The cost is \$10.00 each. The badge comes with a “MAGNETIC” clip. Badge includes your Call Sign in large letters and your First Name in a somewhat smaller font in white lettering on a pitch black background with the club logo. See example below.



Place your order along with \$10.00 in advance for each badge ordered and specify Call Sign and First Name. Contact webmaster or any club officer via email or contact the club treasurer at the next club meeting.

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

OARC MEMBERSHIP DRIVE

SUPPORT YOUR RADIO CLUB

Don't forget to signup/renew your OARC membership now (\$15) which runs August to August. Consider signing up your spouse as well.

Ham + Spouse = \$15 + \$10 = \$25

THANK YOU FOR YOUR SUPPORT

Join OARC

Renew your membership now!

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

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

DUES: Dues are \$15.00 per person and runs August - August. (Ham + spouse = \$25.) More than one ham in the family? Consider the OARC Family plan for \$25.

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



National Parks on the Air Update

Statistics from the first month of National Parks on the Air ([NPOTA](#)) prove that the event is a big hit nationwide! In January, 243 of the 483 eligible NPOTA units had at least one activation, with 606 total qualified activations. More than 72,100 NPOTA contacts were uploaded to Logbook of The World ([LoTW](#)) in January.

The top three most-activated units are all trails: The Appalachian National Scenic Trail, TR01 (15); the Washington-Rochambeau Revolutionary Route National Historic Trail, TR23 (10); and the Santa Fe National Historic Trail, TR11 (9).

The top three units attracting the greatest number of contacts were the Santa Fe National Historic Trail, TR11 (1977); Hot Springs National Park, NP30 (1781), and Cape Cod National Seashore, SS03 (1563).

With an expected uptick in activity as the weather gets warmer across the country, 1 million NPOTA QSOs are not out of the realm of possibility.

For the week of February 4-10, 28 different NPOTA units are scheduled to be activated, including the Fort Pulaski National Monument in Georgia. See the NPOTA Activations Calendar for the complete listings.

[Details](#) about these and other activations coming up can be found on the NPOTA Activations calendar.

Keep up with the latest NPOTA news on [Facebook](#). Follow NPOTA on [Twitter](#) ([@ARRL_NPOTA](#)).



US House Cosponsor List for Amateur Radio Parity Act Grows

The list of cosponsors for the US House version of the Amateur Radio Parity Act of 2015 (H.R. 1301) continues to grow. The addition of Rep Stevan Pearce, KG5KIQ (R-NM), and Rep Beto O'Rourke (D-TX) as cosponsors on February 1 raises the total to 120 from both sides of the aisle. Pearce and O'Rourke are among four cosponsors to sign on to the bill since the start of the year. The other two are Reps Robert Brady (D-PA) and Marcy Kaptur (D-OH), who became cosponsors on January 12 and 13, respectively.

One of a small handful of hams in the US House, Pearce got his ham ticket in November, after reaching out to then-Rocky Mountain Division Director (now Second Vice President) Brian Milesosky, N5ZGT, and New Mexico Section Manager Ed James, KA8JMW, to find out more about ham radio. He joins his House colleagues Reps Daniel Benishek, KB8TOW (R-MI), and Greg Walden, W7EQI (R-OR), who chairs the House Subcommittee on Communications and Technology. During a January 12 hearing on H.R. 1301, Walden called the Amateur Radio Parity Act "a commonsense bill" and urged his colleagues to support it. Brady, Kaptur, Pearce, and O'Rourke may have heeded his advice.

A League-led effort to encourage members to urge their lawmakers to become cosponsors of the House and Senate measures continues. League representatives will be at the [2016 ARRL National Convention](#) February 12-14 in Orlando, Florida, hosted by the [Orlando HamCation](#), to assist members in writing their members of Congress.

H.R. 1301 would direct the FCC to extend its rules relating to reasonable accommodation of Amateur Service communications to private land-use restrictions, such as deed covenants, conditions, and restrictions. An identical US Senate measure, S. 1685, has attracted three cosponsors. It cleared the Senate Committee on Commerce, Science, and Transportation last November.

GUEST ARTICLE

by KB6NU

Are you using the right BNC connectors?

On the [Glowbugs mailing list](#), someone asked:

Help! BNC are supposed to be constant impedance connectors, but I see BNC connectors designed for RG-58 (50 Ω) and RG-59 (75 Ω) coax. There are also “true” 75 Ohm BNC connectors. What is happening here? What is the difference between 50 Ω and 75 Ω connectors?

The most helpful response pointed to the Web page, “[50 Ohm vs 75 Ohm: BNC Connectors Explained.](#)” It notes:

Physically, the main differences can be found in the center pins and dielectric insulators. 75-ohm BNC connectors feature Teflon as a dielectric, and surround the outer spring fingers with air. Its center pin maintains a consistent diameter in both the front and rear areas (this is important—read on to find out why). 50-ohm connectors, on the other hand, use Delrin to surround the spring fingers, and its center pin is larger in the crimp area. You’ll need different crimp tools for each type of center pin.

It goes on to say:

Both connectors can mate without damage, but you can’t really mix and match and expect to get the same video quality (the Web page assumes that you’re going to be using BNC cables for video applications...Dan). For example, if you installed a traditional 50-ohm BNC connector on a 75-ohm coaxial video cable, the digital signal would be significantly distorted. Basically, 50-ohm BNC connectors are used for older analog video applications. But for higher performance A/V applications like HDTVs, 75-ohm BNC devices are necessary. 75-ohm BNC connectors can, however, be used for analog purposes.

After reading this, I did a little Googling for BNC connectors. I discovered that Amphenol makes a 50 Ω BNC connector for RG-8X and LMR-240 coax: part number [112533](#).

I also found what looks to be a very [economical source for BNC connectors](#), a company called the Antenna Farm. I’d never heard of The Antenna Farm before, but they sell different types of two-way radios, including Icom HF transceivers.

The manufacturers of the BNC connectors they sell are [TerraWave](#) and [Lands Precision](#). I’ve never heard of either manufacturer, but the prices seem to be somewhat less than the connectors sold by [Universal Radio](#).

ANNOUNCEMENTS

Next Club Meeting:

3rd Saturday of each Month

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

Meeting/Activity:

See notices above

Talk-in: **-146.82 (pl 123.0)**

Check OARC web site for details

www.ogdenarc.org

Please invite a friend to join you. You do not have to be a member of the club to participate in our club meetings or activities. We invite all to join us.

If anyone is interested in doing a presentation on something or just have something unique to show at the meetings. - Please get a hold of any of the officers and let us know.

Next Weber Co VE Test Session:

1st Wednesday Feb, Jun & Oct

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

Time: 06:00 PM *Walk-ins allowed*

Location: Permanent location

Weber County Sheriff Office
Training Room
712 W 12th Street Ogden Utah

Contact: VE Liaison:

Rick Morrison W7RIK (Liaison)

morrisonri@msn.com (801-791-9364)

Jason Miles KE7IET (IT)

Cost: \$ 14.00

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

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

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

Club Web Site

Be sure to visit our club web site.

www.OgdenARC.org

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

Club Call Sign

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

W7SU

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

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

See you there.

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

OTHER AREA REPEATERS			
FREQ	CLUB	TONE	LOCATION
146.620-	UARC	none	Farnsworth Pk
147.120+	UARC	100.0	Farnsworth Pk
449.100-	UARC	146.2	Farnsworth Pk
449.500-	UARC	100.0	Farnsworth Pk
147.040+	DCARC	123.0	Antelope Isl
447.200-	DCARC	127.3	Antelope Isl
449.925-	DCARC	100.0	No Salt Lake
145.290-	GSARC	123.0	Brigham City
145.430-	GSARC	123.0	Brigham City
147.220+	GSARC	123.0	Brigham City
448.300-	GSARC	123.0	Brigham City
146.640-	BARC	none	Logan
146.720-	BARC	103.5	Mt Logan
147.260+	BARC	103.5	Promontory Pt
449.625-	BARC	103.5	Mt Logan
145.250-	WSU	123.0	* coming soon
449.250-	WSU	123.0	* coming soon
145.490-	K7HEN	123.0	Promontory Pt
146.920-	N7TOP	123.0	Promontory Pt
449.775-	N7TOP	123.0	Promontory Pt
147.100+	Morgan	123.0	Morgan Co
448.825-	IRLP/Echo	123.0	Clearfield City
449.950-	IRLP	123.0	Clearfield City
449.425-	IRLP	100.0	Nelson Peak
147.360+	Summit Co	100.0	Lewis Peak

AREA CLUB MEETINGS & WEB SITES

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

LOCAL AREA NETS

DATE	CLUB	FREQ
Daily @ 12:30 PM mt	Utah Beehive net HF	7.272 Mhz HF LSB
Daily @ 07:30 PM mt	Utah Code net HF	3.570 Mhz HF CW
Daily @ 02:00 UTC	Utah Farm net HF	3.937 Mhz HF LSB
Sunday @ 8:45 AM	Ogden Old Timers HF net	7.193 Mhz HF LSB
Sunday @ 7:30 PM	GS ARC	145.430 - 123.0 (training net)
Sunday @ 8:30 PM	SATERN Net	145.900 - 123.0
Sunday @ 9:00 PM	Morgan Co Net	147.100 +123.0
Sunday @ 9:00 PM	UARC Info net	146.620- no PL tone required
Monday @ 9:00 PM	2-meter SSB net	144.250 Mhz 2-meter USB
Tuesday @ 8:00 PM	Weber ARES	448.600 - 123.0
Tuesday @ 8:00 PM	VHF Society Swap	147.120 + 100.0
Tuesday @ 9:00 PM	Bridgerland ARC	147.260 + 103.5
Wednesday @ 8:00 PM	GS ARC	145.290-, 145.430-, 448.300- (all 123.0)
Wednesday @ 8:30 PM	CSERG	145.770 simplex
Wednesday @ 9:00 PM	No. Utah 10m HF net	28.313 Mhz HF USB
Wednesday @ 9:00 PM	6-meter SSB net	50.125 Mhz 6-meter USB
Thursday @ 6:30 PM	Davis Co Elmers Net	147.040 + 123.0 New Hams
Thursday @ 8:00 PM	Weber State ARC	146.820 - 123.0 (coming soon)
Thursday @ 8:00PM	State RACES VHF/IRLP	145.490 - 123.0, 146.680 - 123.0 3 rd Thursday - even months only
Thursday @ 8:30 PM	Davis ARES	147.420 = simplex
Thursday @ 9:00PM	Wasatch Back Net	147.360 + 100.0
Saturday @ 8:00AM mst	RACES State HF	3.920 Mhz HF LSB 3 rd Saturday – odd months only
Saturday @ 11:00AM mst	QCWA net HF	7.272 Mhz HF LSB

OARC OFFICERS

President: Gil Leonard NG7IL

Vice Pres: Jason Miles KE7IET

Secretary: Mike Taylor KE7NQH

Treasurer: Jerry Cottrell KG7IGW

Program Director:
Pete Heisig WB6WGS

Activity Director:
Dave Mamanakis KD7GR

"WATTS NEWS" e-Magazine

NL Editor: Val Campbell K7HCP

"OARC" web site

Webmaster: Val Campbell K7HCP

OTHER CLUB APPOINTMENTS

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

Repeater Engineers: Mike Fullmer KZ7O
Scott Willis KD7EKO

Photographer: John Shupe K7DJO

QSL Manager: John Shupe K7DJO

Historian/Librarian: Kent Gardner
WA7AHY

Equipment Manager: Val Campbell K7HCP

Club Call Sign Trustee: Larry Griffin AD7GL

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

73 es cul de W7SU

www.OgdenArc.org