



# The Repeater

## Next Club Meeting

Thursday  
April 6, 2017, 7:00 PM

Red Cross Building,  
60 Hawthorne St., Medford, OR  
Across from Hawthorne Park

Program: 1. Jackson County  
Emergency Services  
2. Silent Auction

Volume 2017, Issue 4

April 2017

Scott Cummings	NA7OM	<a href="mailto:kd7ehb@yahoo.com">kd7ehb@yahoo.com</a>	President
Mike Bach	WB6FFC (541) 830-3346	<a href="mailto:eaglepoint.or@juno.com">eaglepoint.or@juno.com</a>	Vice President
Bob Deuel	K2GLO (541) 482-8752	<a href="mailto:k2glo@ikasystems.com">k2glo@ikasystems.com</a>	Treasurer
Allan Taylor	K7GT (541) 855-2054	<a href="mailto:k7gt@arri.net">k7gt@arri.net</a>	Secretary
Tom McDermott	N5EG (541) 734-4675	<a href="mailto:n5eg@tapr.org">n5eg@tapr.org</a>	Newsletter & Membership
Club Web Page:		<a href="http://w7dta.org">http://w7dta.org</a>	

## Club Notes

### April—Silent Auction

The club has some little-used equipment (mostly received via donations) that could be better put to active use by our members. We will be holding a silent auction during the April meeting. At the silent auction, there will be a bidding list for each piece of equipment (see page 3 of this newsletter for the anticipated items) where you can write your bid. Most of the items have a minimum bid, it will be listed on the sheet.

After the main presentation program and the break, the winning bidder will pay via cash or check to the club treasurer.

We would like some feedback on the March

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*The Repeater* is the official newsletter of the Rogue Valley Amateur Radio Club, Inc. It is published 10 times a year—once per month excluding July and August.

## Secretary's Report

The March 2017 RVARC meeting was called to order by President Scott Cummings at 7PM.

A very minimal business portion was held to allow sufficient time for Tom N5EG and the video presentation on digital ATV. We had six (count them, 6 ! ) visitors:

- Joseph Clarke, W3JVC
- Darrell Barker, N7CZX (formerly KF7FNV)
- Charlie Albrecht (no call, yet)
- Robert Bensel, K17EQV
- Ron Bessonette, KI7FQP
- Anthony Clark (unlicensed, son of Jason KI7ITJ)

N7CZX is the VP of the local Cascades Amateur Radio Enthusiasts (CARE) radio club and came somewhat to mend fences and encourage combined activities, possibly

*(Continued on page 2)*

## Club Web Page

*(Continued from page 1)*

meeting—it was the video on low cost high performance digital video.

1. Did you like the presentation and format (Video on the TV set)?
2. Was the information clear? Were there too many acronyms?
3. Did it help you understand how you could set up your own digital video Amateur TV station?

There were a lot of links in the presentation for more information. Here are some of the links in case you couldn't write fast enough.

Mel Whitten, K0PFX web page:  
<http://www.melwhitten.com/>

HiDes — maker of inexpensive DVB-T transmitter and receiver modules that can operate on amateur frequencies.

[http://www.hides.com.tw/index\\_eng.html](http://www.hides.com.tw/index_eng.html)

You can purchase units via HiDes' EBAY storefront. (Search EBAY for HiDes).

digitalATV Yahoo group

<http://www.groups.yahoo.com>

ATV Television quarterly

<http://ATVQuarterly.com>

British Amateur Television Club

<http://www.batc.org.uk>

OE7DBH Class A RF Power Amps

<http://dl1mfk.de/Sonstiges/Darko/>

Digital Amateur TV Primer

<http://www.q7lt.com/datv.html>

CQ\_DATV ePub

<http://www.cq-datv.mobi/ebooks.php>

VHF Design 70cm Preamp

<http://en/vhfdesign.com/>

Jim Andrews DATV App notes

<http://kh6atv.com>

*Digital Television* Herve Benoit, 3rd edition  
(Amazon)

## Secretary's Report, Continued.

*(Continued from page 1)*

Field Day 2017.

A small donation of gear was received from W4EIN prior to the meeting. He is moving to NY state and leaving the hobby. It consisted of two HTs with power packs and an older iambic keyer.

Bob Deuel gave the treasurer's report:  
\$4812.51

After this short business portion, Tom N5EG played the video presentation by K0PFX on digital ATV using a DVB-T dongle. A requisite eyeball QSO session and coffee break was held as an intermission to the video.

Submitted by Allan Taylor K7GT

## This Month's Programs

### 1. Jackson County Emergency Services: Who, What, and Where

- **Program:** - Steve Bosbach, KW5V. Steve will describe Jackson County Emergency Services, and the role that amateur radio plays.

**Biography:** Steve is a member of RVARC and also the Jackson County Amateur Radio Emergency Service (JCARES) club.

### 2. Silent Auction of Club Equipment

- **Program:** - There will be a silent auction of unused RVARC equipment. Some of the equipment has a minimum bid, it will be listed on the bidding sheet. Payment only by cash or check payable to RVARC. Equipment is sold 'as-is' untested condition unless noted otherwise.

#### Anticipated Equipment Available (Subject to change):

- Heathkit SB-401 transmitter with book. \$5 minimum bid
- Heathkit SB-500 6-Meter transverter with book. \$5 minimum bid.
- Heathkit SB-600 speaker with book. \$5 minimum bid.
- Heathkit HD-19 phone patch, no book. \$5 minimum bid.
- Heathkit Book only for SBA-300-3 6-meter receive converter.
- Heathkit Book only for SBA-300-4 2-meter receive converter.
- Yaesu FT-60R dual-band HT plus drop-in charger. \$20 minimum bid.
- Yaesu VX-170 2m HT -- no charger? \$5 minimum bid.
- Wm. M. Nye iambic keyer (built-in iambic paddle). \$5 minimum bid.
- Icom IC-740 HF transceiver, built in AC Power Supply + AT500 full automatic antenna tuner (500W continuous) + Mic + Manuals. Sold only as one lot. Does not have crystal calibrator or FM options. Tested. \$200 minimum bid.

#### Programs Planned for 2017 (subject to change):

- **May:** Echosounding the Ionosphere with SDR - Tom McDermott, N5EG
- **June:** Field Day - Mike Bach, WB6FFC
- **July:** No meeting
- **August:** No meeting
- **September:** RVARC Swap Meet
- **October:** American Woodpecker (Over the Horizon Radar)
- **November:** TBA
- **December:** TBA

## Multiple Transmitter CW & SSB

[From the CQ-Contest Reflector—some responses to a question by Tom, K0SN about simultaneous SSB and CW on the same band.]

“The W3AO Field Day team has used multiple transmitters in the same band for more than 20 years with no trace of interference at all. We often have four transmitters on the same band (CW, SSB, digital and GOTA).

We do not use any fancy filtering. The key to our success is using horizontally polarized antennas installed end-to-end. For example, on 20 meters we use four Yagis installed in a straight line with nearly 300 feet of spacing between the tips each Yagi.

The same principle is applied with dipoles. on 80 meters we use three dipoles installed in a straight line with about 300 feet of spacing between the tips of each dipole.

Its important to use transmitters with clean phase noise characteristics. Some of the early synthesized transceivers are unusable such as the Kenwood TS-450S. Many other common transceivers such as the FT-1000MP, FTdx5000 and K3 are completely interference free.

Some of the serious DX contesters also have the capability to operate in band with 1500 watts. A clean transceiver, a very clean amplifier (very low IMD), and widely spaced antennas with proper antenna orientation are keys to success.

Of course DXpeditions have also successfully conquered these same issues for years.

73  
Frank  
W3LPL”

And a follow-up response:

“We've been doing it for years at the 500W

level on our CQP county expeditions. I've even done it at home with 1.5kW.

The keys to doing it are 1) equipment with very clean transmitters; 2) equipment with extremely bulletproof receivers and very low phase noise;

3) very good station design, including careful location and orientation of antennas, excellent antenna switching and routing, really good coax, properly installed connectors, common mode chokes at the feedpoint of every antenna, etc.

At CQP, our 20/15/10 antennas are typically 200 ft apart and located so that a line between them is perpendicular to their aim point. Here in NorCal, we aim to 70 degrees for domestic contests. For 80 and 40, they're also co-linear and separated by 200-300 ft, and we use dipoles.

Each station is a K3 (with new synth board), KPA500, KAT500, P3/SVGA. All coax is a very good grade of RG8/213, all connectors are Amphenol, carefully soldered. All connections are tightened with a wrench.

At home, the Yagis are separated by about 200 ft, orientation as described for CQP. Feedline is mostly 7/8-in hardline to the main tower, mostly 1/2-in CATV hard line to the second tower with monobanders for 20 and 15. Ten Tec Titan 425 tube amps. I can run SO2R on the same band with orientation described. I can't if I point one antenna sort of at the other. :) I have, for example, been running to the east or SW on 10M CW while S&P to pick up several KL7s (NW) or even JA, but I must use the antennas for each direction that come close to nulling the other antenna. :)

73, Jim K9YC”

## Log What Was Sent !

There was a thread February 21st and 22nd, 2017 on the CQ-Contest mailing list about one station sending the wrong exchange during part of the ARRL-DX-CW contest. Folks wondered if they should log what was (wrongly) sent, or try to correct it?

“PV8ADI sent "RR" for the first 76 contacts, then switched to KW. Maybe he had a configuration problem in his software or keyer? His log file shows 1000 as the sent power for all qsos. The file also lists RR as the state/province (in the header).

This results a high percentage of busted exchanges **caused by PV8ADI**. A quick look at the PV8ADI reverse log (a listing of every qso claiming to work PV8ADI) shows when this happened. Most stations logged "RR." A few made up a number.

PV8ADI is marked as a log with bad sent exchange info. No one will receive a busted exchange with PV8ADI.

Ken - K1EA”

The rule holds—log what was sent. In this case you will not be penalized. Ken Wolff is in charge of log checking for the ARRL-DX contest, so that’s pretty definitive !

# April 2017

Sun                  Mon      Tue      Wed                  Thu                  Fri                  Sat

						1 • North American SSB Sprint
2 • North American SSB Sprint	3	4	5	6 • <b>RVARC Club Meeting</b>	7	8
9	10	11	12	13 • Rogue Hack Lab • ARES Net	14	15
16 • ARRL Rookie Roundup SSB	17	18	19	20 • ARES Net	21	22
23	24	25	26	27 • ARES Net	28	29 • Florida QSO Party
30 • Florida QSO Party						

## Events

- Thursday, April 6th 7:00 PM RVARC Club Meeting - Red Cross Medford
- Thursday April 13th — 6:30 PM Rogue Hack Lab, Medford Library
- Thursdays 7:30 PM - ARES Net. K7RVM repeater 147.000 (+) [ PL 123.0 ]
- Next Newsletter: May Issue. Deadline for input: April 20th.
- North American SSB Sprint — 0000—0400Z Apr 2 (evening of Apr 1 Pacific Time) <http://ssbsprint.com/rules>
- ARRL Rookie Roundup SSB 1800-2359 Z — Apr 16 UTC. <http://www.arrl.org/rookie-roundup>
- Florida QSO Party—Apr 29 and 30 UTC <http://www.floridagsoparty.org/rules.html>

## RVARC Membership

RVARC membership dues run from January 1 through December 31. Please bring cash or a check payable to RVARC to a club meeting, or mail (checks only) to:

RVARC Membership  
c/o 1058 Linda Ave.  
Ashland OR 97520

Regular Member:	\$20.00
Senior Member (62 and over):	\$15.00
Family Member:	\$20.00
Student Member:	\$10.00

## For Sale / Wanted

## 2017 Amateur Radio Examinations

In the Rogue Valley, amateur radio exams are provided by the RVARC and the SOARC. New exam participants need to provide identification, while upgrading amateurs need to **provide a copy of their current license** as well as show identification. The exam fee for 2017 remains \$15.00. All license candidates must provide a picture ID. Upgrading amateurs must also provide a photocopy of their current license to send in with their application. To search for other exam locations, see:

<http://www.arrl.org/arrlvec/examsearch.phtml> or our club webpage: <http://w7dta.org>

### **Medford—Phoenix, OR**

**Time:** Saturdays, Registration 8:30 AM. Exam session at 9:00 AM. Walk-ins welcome.

**Location:** Fire District 5 HQ. 5811 South Pacific Highway, Phoenix, Oregon 97535

**Dates 2017:** Jun 17 Oct 28

**Contact:** Don Bennett, Email: [kg7bp@rfwarrior.com](mailto:kg7bp@rfwarrior.com) Phone: (541) 973-3625

### **Grants Pass**

**Time:** Fridays Registration 6:00 PM. Exam session at 6:30 PM. Walk-ins welcome.

**Location:** Fruitdale Grange. 1440 Parkdale Dr., Grants Pass OR 97527-5288

**Dates 2017:** May 19 Aug 18 Nov 19

**Contact:** John Stubbe, K7VSU, email: [jstubbe7@gmail.com](mailto:jstubbe7@gmail.com) Phone: (541) 218-2244

**Roseburg, Bend, Redding, Brookings, Crescent City** — Please see our club webpage, <http://w7dta.org> for updates as we receive schedules for these cities.

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