The Repeater

Volume 2019, Issue 9   **September 2019**

Club Notes

The club will have two events in September:

1) A club meeting on Thursday, September 5th at the usual place (Medford PD), and
2) A swapmeet at Kathrein / Scala on airport road (same place as last year) on Saturday, September 7th starting at 8:00 AM. This will be an outdoor-only event this year, bring your own table, chair, hat, etc.

So plan to attend both events if you are able.

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

2019-06-06 RVARC Meeting Minutes

Tonight's presentation will be on DMR (Digital Mobile Radio), presented by Pat Cunningham, KD7MPA.

7:06pm Acting President, Scott, NA7OM, called the meeting to order. There was no Treasurer's Report this month.

Work is continuing to get the club call sign changed to K7MFR.

The expenses for 7QP amounted to $117.50

Since upcoming Field Day expenses might exceed $300, Mike, WB6FFC, made a motion that the club authorize expenses to exceed $300. Tom, N5EG, seconded.
In discussion, Raoul, KG6DKA, mentioned that last year's FD expenses were about $375, but this year we are saved a $75 porta-potty expense due to the Agate Lake locat-

Club Notes	**Secretary's Report**

tion. Voting was a unanimous YEA for the authorization.

The club website, W7DTA.org, is operating again, with new backups going to N5EG's Google Drive.

Bill, N7EU, said the CARE club will help with Field Day and Mike, WB6FFC, said that he has improved his tower for easier setup. Field Day setup will be Friday, June 21, starting around Noon at the East side of Agate Lake.The Dry Creek Road will be used for wide separation of towers, where there will be about 1000 feet spacing available. The club has at least 200 feet of 99213 low-loss coax.

Scott, NA7OM, and Dan, N6WN, discussed the idea of giving first-test-Extras a chance at a free year-membership for checking out the club.

Some new attendees / visitors were:
- Nick, KJ7GHP
- Leroy, KJ7GFR
- Dave, KJ7GFS
- Fred, KF7UNF
- Forest, KH6EAL.

Welcome!

7:32pm Scott called for new business. The next club meeting will be in October, with the club swap meet in late August, or early September, usually the weekend before Labor Day. This year that weekend falls on the 24th of August, since Labor Day is on Sep. 2nd. Mike, WB6FFC, volunteered for the swap meet committee, and will help find a location. John Laybourne, AC7S, needs to sign up for next year's club meeting time-slots at the Medford PD Community Room.

7:37pm Break for snacks, and visiting.

(Continued from page 2)

-----Secretary had to leave at this point, Tom took over from here.

About 8:10 PM, Pat Cunningham, KD7MPA presented on Digital Mobile Radio (DMR).

DMR is an ETSI (European Telecommunications Standards Institute) standard. A Motorola specific version is called Mototurbo.

Some low cost radios available include: Anytone, TYT, and BTech.

There are three Tiers of DMR uses:
- Tier I : Unlicensed Simplex (used mainly in Europe)
- Tier II : Amateur, repeaters, and higher power
- Tier III : Trunked Radio (commercial).

DMR uses 4800 baud, 4FSK modulation in a 12.5 kHz bandwidth (basically a modified FM radio).

There are 2 independent timeslots during a transmission.

DMR supports talkgroups (of which there are thousands).

You need to get a DMR ID# before you can operate your radio. Website: RadioID.net— to register your callsign and receive a DMR ID#. The site receives about 3,000 registrations a month, and there are about 160,000 people registered at the current time.

DMR-MARC and Brandmeister are networks of linked Internet DMR reflectors. They provide access to the talkgroups, and provide the Internet linking of DMR repeaters and hotspots. Some reflectors can transcode between DSTAR or Fusion to DMR.

Website: hose.brandmeister.network is a network activity monitor that allows you to listen to DMR talkgroups with just your computer (no radio needed).

Each radio needs a "codeplug" which is a software configuration that defines the Zones, Channels, Frequencies, ID's, color (like PL tone) for each channel. They can be complicated to program.

In the Rogue Valley there are no DMR repeaters currently, so operation is through personal hotspots (very short range) tied to a computer to access the worldwide DMR network.

DMR provides APRS support, both analog and over the Brandmeister network.

DMR also provides SMS (short test message) support.

Pat demonstrated his Anytone AT-878UV radio connected to his hotspot (which he brought along to the meeting). The hotspot is a small Chinese-made radio connected to a Raspberry Pi and is very inexpensive.

Pat made a call through the echo test service so he could have it record his audio then play it back. The audio quality was very good.

The meeting ended at 9:10, but discussions with the presenter continued for a long time afterwards.

(Editor—My experience is that the Internet based no-radio-needed monitors sometimes have poor audio quality, but the radios themselves, and internet-to-radio links sound quite good).

—73

This Month's Program

1. Emergency Communications—Preparing for the Worst

- **Program:** Steve Bosbach and Dakota Otto will discuss how Jackson County agencies work with the ARES (Amateur Radio Emergency Service). They will also discuss the various programs available for certification of emergency responders.

  - **Biography**: Steve Bosbach, KW5V, and Dakota Otto, KR7DAK are members of Jackson County ARES (JC ARES).

Ham Radio Swapmeet 2019 – Free !

Rogue Valley Amateur Radio Club
Saturday, September 7, 2019
Location: Kathrein Inc. Scala
Outdoors in the Parking Lot.

http://w7dta.org
8:00 AM until Noon
555 Airport Rd., Medford, OR
Bring Your Own Table

Field Day 2019

This year RVARC and CARE joined together for Field Day at Agate Lake park east side. The weather was absolutely fantastic the entire weekend. The site has turned into a great place for club events, with good facilities and plenty of room to spread out multiple towers and antennas.

ARRL, including all the supporting documentation for the bonus points.

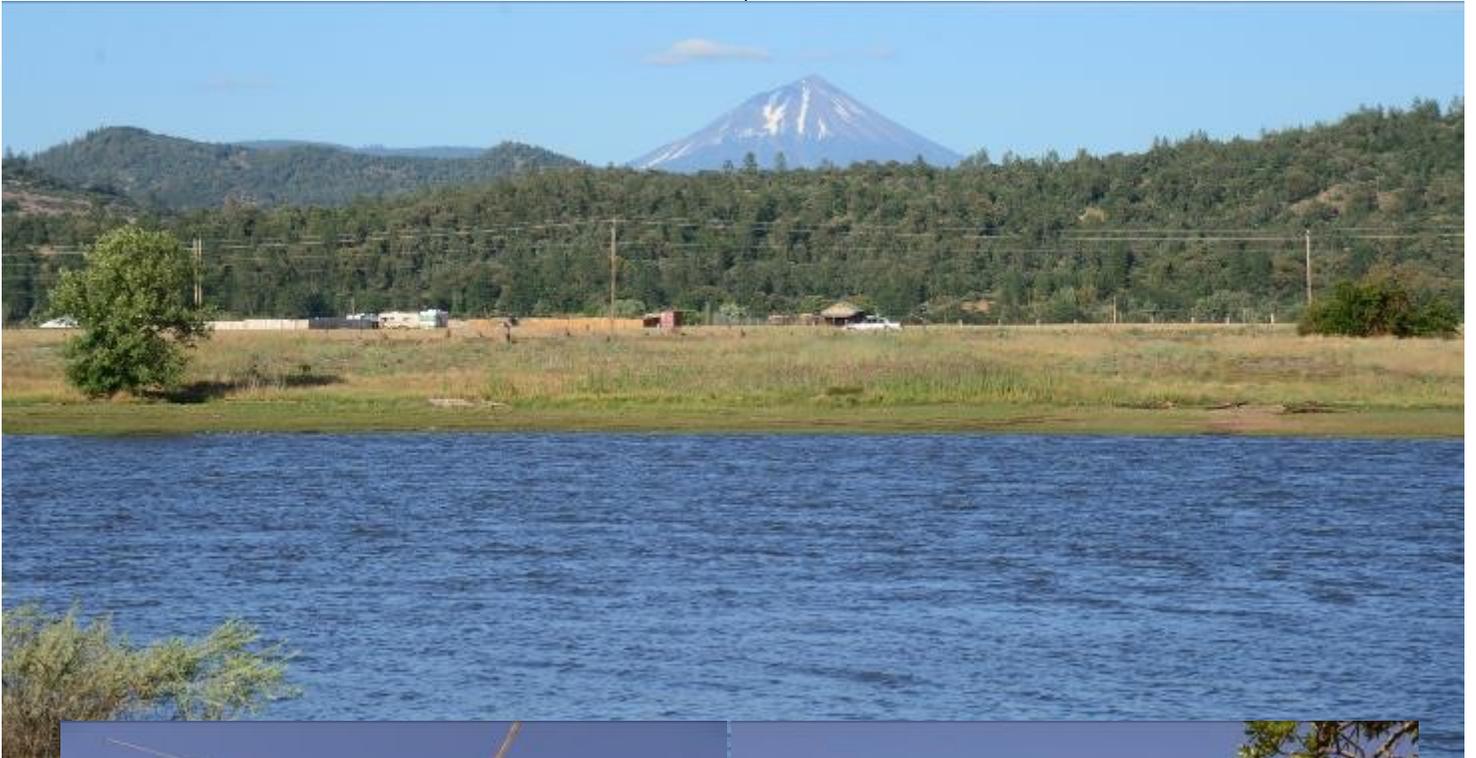Pictures are from Gerry Fulstone, K6KSI.

With sunspots bordering on nil to zilch, the low bands were the workhorse throughout the weekend, although 15 m did open up Saturday afternoon for several hours, a pleasant surprise. Most of the contacts were on 20m and 40m.
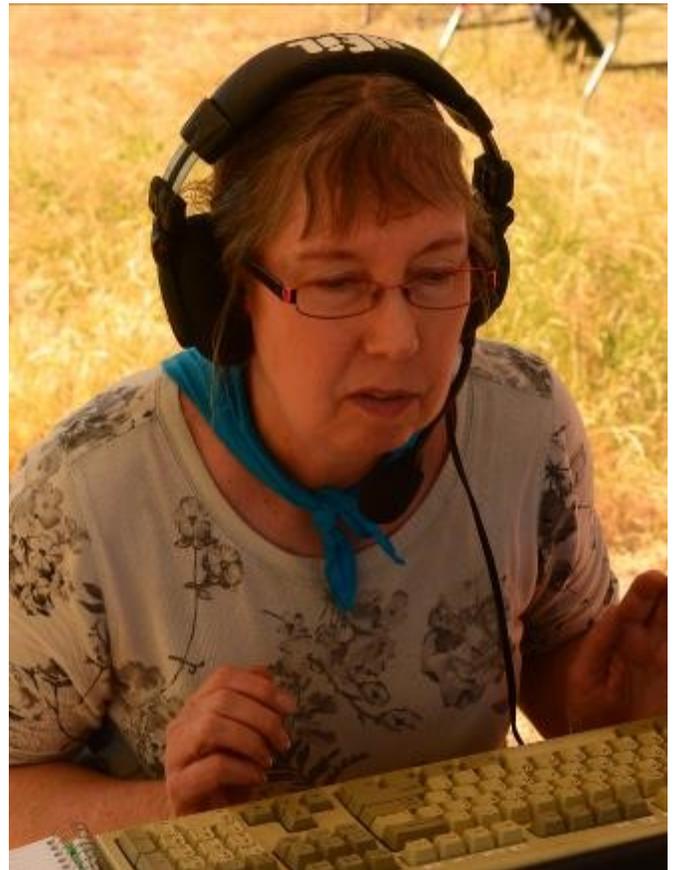
Pat Cunningham, KD7MPA handled the collection and dupe checking of logs, and the submission to the
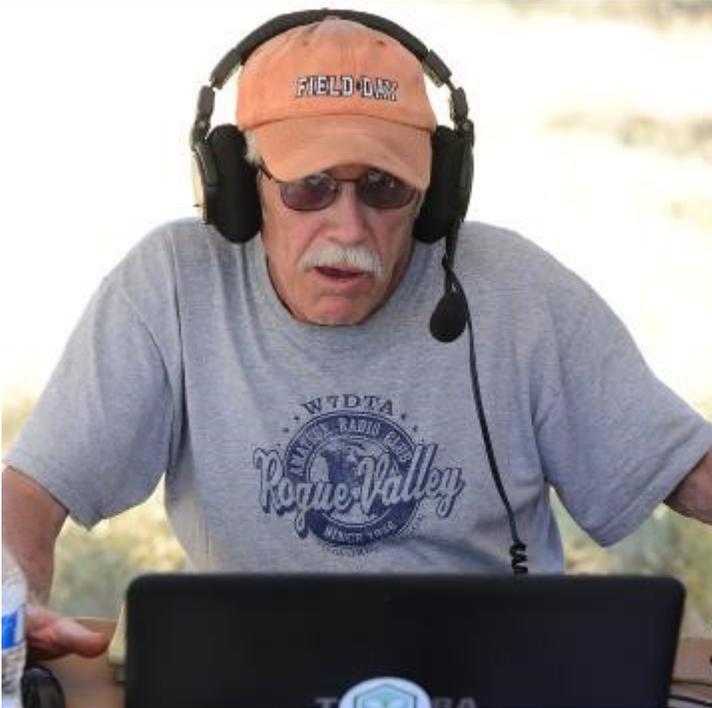
September 2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1 • CP ERC Net	2 • CARE Net	3 • 2M SSB Net	4 • 2M SSB Net	5 • **RVARC Club Meeting** • ARES Net	6	7 • **RVARC Swapmeet**
8 • CP ERC Net	9 • CARE Net	10 • **CARE Meeting** • 2M SSB	11 • 2M SSB Net	12 • **Rogue Hack Lab** • ARES Net	13	14
15 • CP ERC Net	16 • CARE Net	17 • 2M SSB Net	18 • **JCARES Meeting** • 2M SSB Net	19 • ARES Net Sis-Q ARC	20	21
22 • CP ERC Net	23 • CARE Net	24 • 2M SSB Net	25 • 2M SSB Net	26 • ARES Net Sis-Q ARC	27	28
29 • CP ERC Net	30 • CARE Net					

Events

Meetings

- **RVARC** Thursday, September 5th — 7:00 PM, Medford Police Department Community Room
- **Rogue Hack Lab** Thursday Septyember 12th — 6:30 PM, Medford Library
- **CARE** Tuesday, September 10th — 6:30 PM — New Far East Restaurant
- **JCARES** Wednesday, September 18th — 6:00 PM —Jackson County Sheriff's Office on Crater Lake Highway

Nets

- **ARES** Thursdays 7:30 PM - K7JAX Mt. Baldy Repeater 146.840 (-)   [PL 123.0]
- **CARE** Mondays 7:00 PM—. KB7SKB Jacksonville Repeater 147.100 (-) [PL 136.5], open, directed net, visitors welcome
- **2 Meter SSB** Tuesdays 7:00PM and Wednesdays 10:00 AM—144.200 USB
- **Central Point Emergency Radio Communications** Sundays 8:30 PM—— KB7QMV Medford Repeater 145.410 (-) [PL none]. Move to simplex net on 147.585 MHz when finished. Directed net.
- **Siskiyou County ARC** Thursdays 7:00 PM—Net K6SIS Repeater 146.79 (-) [PL 100.0]

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 1940 Stevens Rd.
Eagle Point OR 97524-6523

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

For Sale / Wanted

We have had to shut down our Sell / Swap webpage due to malicious attacks using postings and comments.

Please send any For Sale / Swap postings to the newsletter editor for posting in this newsletter.

2019 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 2019 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 2019:   Oct 26
(note these dates are tentative until confirmed by FD#5)
Contact: Don Bennett, Email: kg7bp@arrl.net 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 2019:   Nov 15th
Contact: John Stubbe, K7VSU, email: 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.

Next Club Meeting
Thursday Sept 5 2019,7:00 PM

Medford Police Department Community Room
219 S. Ivy St., Medford, OR

Program: Emergency Communications & ARES