



The Repeater

Next Club Meeting

Thursday,
March 3, 2016, 7:00 PM

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

Program: Unique and Significant
Vacuum Tubes

Volume 2016, Issue 3

March 2016

Scott Cummings	NA7OM	
Allan Taylor	K7GT	(541) 855-2054
Bob Deuel	K2GLO	(541) 482-8752
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President
 Vice President
 Treasurer
 Secretary
 Newsletter & Membership

President's Report

It amazes me when I realized that this is the 80th year of RVARC. It wasn't hard to come up with the figure, there it was emblazoned across our club's logo. I'm honored to be in the position of your president this year and it's not lost on me upon reflection, the many others who have come forward and served not only the in the position of president but also as club officers thru eight decades the club's been in existence.

I'd like to commit this year's slate of elected and appointed club officials to place the club's business functions and finances in order as to carry forward to the club's centennial. There is some housekeeping to do and as we carry on, I'll be informing the member-

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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

RVARC - Minutes for February 4, 2016

The meeting was called to order by club President Scott Cummings, NA7OM at 1900 PDT in the meeting room of the Red Cross building - Medford, OR .

New members and guests included:

- Steve Bosbach, KW5V from Austin, TX.
- Cameron Jenson
- Dave Hoffman, KL1XI
- Chris Duncan, N7CGD
- Linda Lawson KF6BFU
- Bill Duncan, W7WGD
- Rob Duncan, N7RFD.

Scott, NA7OM showed us some of the secrets within the President's briefcase.

Allan Taylor, K7GT, gave a short presentation on Antenna Fundamentals. Allan described how antennas radiate energy, and showed examples of different commercial

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President's Report, Continued

ship at the upcoming meetings thru the rest of the year on our progress.

Speaking on coming forward to serve, we are in need of committee members for Field Day and the annual swap meet. I'm calling for volunteers first, so if anyone wishes to help out on either events, please come and see me at the meetings. As time is of the essence for success for both events, failing to get anyone interested in helping to organize, I will employ a time honored club tradition of getting volunteers for club positions,..... that of press-ganging! If I call for help at the next meeting and see anyone fidgeting, scratching, rubbing a body part, or not sitting on their hands, I'll assume your just shy to speak up and you will be appointed to chair or man either committee. Come on! Let's make these club events fun and a success!

NA7OM

Secretary's Report, Continued

and homebrew antenna designs available for 2 meters.

Old Business

No old business was discussed this month.

New Business

Scott, NA7OM, announced that Ed Vaughn's (K7YLO) widow donated a sizeable amount of radio equipment to the club. The equipment will be made available for sale in the near future

National Parks On The Air (NPOTA) has gotten underway, and at least one club member has activated Crater Lake National Park. There was some discussion about future activations in relation to this event.

7QP is coming up again in May. There is a call for operators interested in participating in the contest. Anyone wanting to operate should contact Scott, NA7OM (see newsletter masthead for contact information).

Treasurer's Report

Bob Deuel, K2GLO, reported a balance of \$3066.85 in the club treasury. The rent and insurance have been paid for the year.

The meeting was put on hold at 2005 PDT for "eyeball QSOs". The meeting was called back into session at 2015 PDT.

Presentation

Tom, N5EG, gave an informative presentation on the Basics of Ethernet. Tom discussed the history and evolution of Ethernet, the different types, and the physical construction of Ethernet. As a voting member of the IEEE 802.3 standards committee, Tom had plenty of interesting discussion on the subject.

The meeting was adjourned at 2110 PDT

Submitted by Carl VanOrden, W7BRO Secretary

This Month's Programs

Unique and Significant Vacuum Tubes

Program: Lud Sibley will demonstrate a variety of tubes, from ancient to “modern,” many of types not seen in North America. Some are unusual and technologically / historically significant, others are amusing freaks. They cover a variety of national origins and technologies. Some were successful innovations, others were commercial flops.

Biography: Lud Sibley, KB2EVN is an antique-electronics writer and editor with 300 or so articles in the “AWA Journal,” “Radio Age,” the “AWA Review,” and local-club publications. Currently emphasizing electron devices, he is the tube columnist for the “Journal” and produces “Tube Collector” for the Tube Collectors Association. Besides tubes, he collects literature, radios (civilian and military), and telegraph equipment. Sibley wrote the book “Tube Lore” and served as technical editor of the three-volume series “Telecommunications Transmission Engineering” produced by Bell Communications Research, Inc.

A member of RVARC since 1999 and an alumnus of the 532nd Signal Company, he had an early background in moon-radar research and in supplying encrypted telephone service to the spook agencies in a Far Eastern clime.

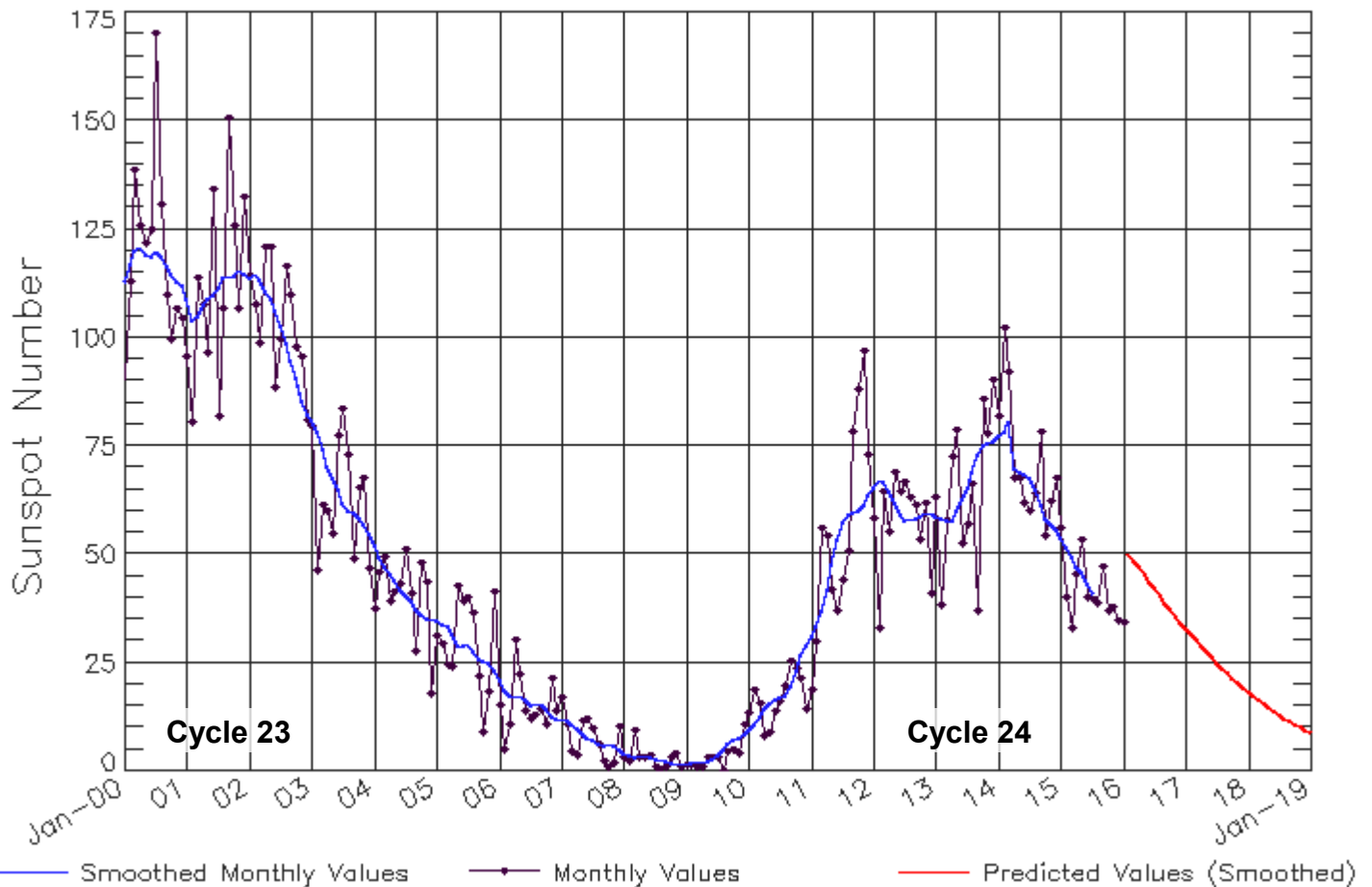
He has been certified as qualified to practice professional electrical engineering in California and New Jersey, handle cryptographic material, repair ship radars, communicate on 17 meters, operate the M-60 machine gun, and own a skunk.

January 2016 Update on Sunspot Cycle 24

We appear to have crested past the peak of solar cycle 24, and are declining into a period of lower activity according to data from the ISES Solar Cycle graph / NOAA.

cycle 23. Past success is apparently not a good predictor of future performance. A wide range of other models appear to have over-shot, predicting a higher to much-higher

ISES Solar Cycle Sunspot Number Progression
Observed data through Jan 2016



Updated 2016 Feb 8

NOAA/SWPC Boulder, CO USA

The projections of the height of cycle 24 were generally lower than cycle 23, but with a wide range of values. It appears that almost all forecasts made before the start of cycle 24 were too high.

Forecasting sunspot cycles has proven to be difficult. Several models correlate physical processes in the sun with previously recorded data. One of those had high correlation to historical data ($r=0.98$), but failed to accurately predict the average smoothed peak of cycle 24 (the one we are currently in) during

smoothed sunspot number than has actually occurred in the current cycle.

The actual sunspot numbers are roughly two standard deviations below the aggregate low predictor made back in March 2007, which forecast about 90 in year 2012, while the aggregate high predictor forecast an average sunspot number of 140 in year 2011.

If the current cycle is actually 11 years, we could expect the next peak around 2024.

ARRL Board Elects new CEO

From ARRL News Release

Tom Gallagher, NY2RF, of West Palm Beach, Florida, will succeed David Sumner, K1ZZ, as the chief executive officer of ARRL, effective April 18. In that role, he will oversee all activities at ARRL Headquarters in Newington, Connecticut. Meeting in a special webinar session on January 25, all 15 ARRL Directors voted to elect Gallagher as CEO and Secretary, positions that Sumner will relinquish on April 18. Gallagher will join the ARRL staff as CEO-Elect on February 29, and a transition period will follow.

"I am excited by the prospects of ARRL's Second Century, but I am equally mindful of Dave Sumner's enormous 4-decade contribution to our organization and of the extraordinary contributions he has made to advancing the art and science of Amateur Radio, to growing our ranks, and to expanding the sheer enjoyment of ham radio around the world," Gallagher said.

Gallagher said he is looking forward to attending the ARRL 2016 National Conven-

tion, hosted by the Orlando HamCation, February 12-14.

Licensed in Pennsylvania in 1966 as WA3GRF (and later N4GRF in North Carolina), Gallagher is a member of the West Palm Beach Amateur Radio Group. He describes himself as "an incurable HF DXer and inveterate tinkerer" and credits his first visit to the Franklin Institute's Amateur Radio station W3TKQ in 1963 for inspiring his interest in ham radio.



Amateur Radio led to an early career in broadcasting. He was a cameraman and technician with WGBH-TV in Boston, the CBS Television Network, and Metromedia's WIP Radio in Philadelphia.

He joins ARRL following 3 decades as an international investment banker and financial services executive. His career has included senior leadership positions with JP Morgan Chase & Co and CIBC Oppenheimer & Co in New York, and with Wachovia Capital Markets in Charlotte, North Carolina. He has also served as an

adjunct professor at the Walsh School of Foreign Service at Georgetown University and as CEO of the Secondary School Admission Test Board in Princeton, New Jer-

ARRL Board Elects new CEO, Continued

sey. Gallagher has served on boards, both public and non-profit, including two NYSE companies, the NPR affiliate in Charlotte, the Executive Board of The PENN Fund at the University of Pennsylvania, and The International Center of Photography.

Gallagher graduated magna cum laude with a BA from the University of Pennsylvania, and he holds an MBA from The Wharton School. He is a graduate of The Lawrenceville School, where he held the Nicholas Noyes scholarship.

In addition to ham radio, Gallagher enjoys saltwater fishing and sailing which, he confesses, is sometimes just an excuse to operate maritime mobile.

At his Florida home along the Intracoastal Waterway, Gallagher has maintained a fairly low Amateur Radio profile, with a wire antenna that, he says, works well into Europe and Latin America. He also has a 40 meter Windom. "I would like to work Asia when I get a better HF antenna solution," he said. Gallagher has both modern and vintage stations as well as a high-speed multimedia (HSMM) digital repeater.

Gallagher and his wife Lindy Allyn divide their time between West Palm Beach, Florida, and Manhattan. They have three sons. He plans to return to Connecticut; he'd lived previously for 13 years in New Canaan.

Mike & Key Hamfest, Puyallup March 5th

Hello

We would just like to take this opportunity to remind your club members of the upcoming Mike & Key ARC Hamfest in Puyallup, WA. This year's event is March 5, 2016. This is an ARRL sanctioned event.

Additional details such as maps, lodging, and VE exams can be found at

<http://www.mikeandkey.org/flea.htm>

Many thanks and 73
Mike, N7WA
Event Publicity

Pavilion Exhibition Hall
Washington State Fairgrounds
9th Ave SE. & Meridian St S.
Puyallup, WA 98372

March 2016

Sun Mon Tue Wed Thu Fri Sat

		1 • Women Hams Net	2	3 • RVARC Meeting • Women Hams Net • ARES Net	4	5 • ARRL DX SSB
6 • ARRL DX SSB	7	8 • Women Hams Net	9	10 • Women Hams Net • ARES Net.	11	12
13	14	15 • Women Hams Net	16	17 • Women Hams Net • ARES Net.	18	19
20	21	22 • Women Hams Net	23	24 • RVARC Newsletter Deadline • Women Hams Net	25	26 • CQ WW WPX SSB
27 • CQ WW WPX SSB	28	29 • Women Hams Net	30	31 • Women Hams Net • ARES Net.		

Events

- Thursday March 3rd - 7:00 PM RVARC Club Meeting
- Tuesdays & Thursdays 7:00 PM—Women Hams Net K7RVM Repeater 147.000 (+) [PL 123.0]
- Thursdays 7:30 PM - ARES Net. K7RVM repeater 147.000 (+) [PL 123.0]
- Next Newsletter: April Issue. Deadline for input: March 24th.
- Mar 5-6: ARRL DX Contest SSB. <http://www.arrl.org/arrl-dx>
- Mar 26-27: CQ World Wide WPX Contest SSB <http://www.cqwp.com/rules.htm>

For Sale (Grants Pass)

"AS-IS" - Most probably not working.

1. a. Heathkit HW-100 Amateur SW Valve/Tube Transceiver Worked when last used a long time ago in Colorado, but current status unknown. b. HP-23A Power Supply Unit with Speaker.

2. TPL 60/80W and 80/120W FM Amplifier 136-175 MHz [Mostly un-used.]

3. a. MFJ 1276 Pactor/Packet unit. Last used with a Commodore-64 [that, and software, not included]. b. Some cables. c. Manual

4. a. "Standard" [brand] 2-metre "Handi-Talkie" using crystals, with 5 sets of crystals. [Probably not working.] b. "Standard" charger unit for above. c. Some accessories

5. Yaesu FT-50R 2-metre/440 MHz up to 5W handi-talkie with accessories. Still works on batteries, but re-chargeable pack not charging.

6. Yaesu FRG-7700 SW Receiver with memory, indoor amplified antenna, MFJ pre-selector and Heath Q-Multiplier. Worked the last time on (last year).

7. Yaesu FT-747GX Transceiver (worked the last time it was tried, but a long time ago). I am going to check its status soon.

8. British Codar CR-70A SW Valve/Tube Receiver with Codar PR-30 Pre-selector/Amplifier and Heathkit Q-Multiplier. (220-250 VAC required, although I did put a 115 to 230 VAC transformer in the line. Extra valves/tubes available.

9. British Codar AT5 AM/CW Tube Transmitter with PSU (hum on transmit a long time ago). 1.8-2.0 and 3.5-4.0 Mc/s, 10 W input AM, 14 W CW. 240 VAC required.

10. Misc. ARRL, SWL and other Books, and

Code Tapes.

Thanks, and 73,
Dave Schneider, AB0GC
1501 SW K St.
Grants Pass, OR 97526
USA

whysmanic@gmail.com

[Ed note: Dave didn't send me any prices, I suspect you need to email him and enquire].

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

2016 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 2015 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 2016: Feb 27 Jun 18 Oct 29

Contact: Don Bennett, Email: 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 2016: Feb 19 May 20 Aug 19 Nov 18

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

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