

Watt's Up

*News Letter for the Umpqua Valley
Amateur Radio Club
P.O. Box 925 Roseburg, OR 97470*

March 2009

*Watt's Up Staff: Editor-Wayne W9AE Publishing-Russ, W7DUR
E-Mail Distribution, Dick, AA7GC*

President

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Jerry, K7ETU

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John, KE7LDZ
Doug, WB6MFV

Club Call Signs

**KC7UAV
KC7TLY**

ARES Nets

Douglas County ARES
145.430 repeater
Mondays at 7 PM
District 5 ARES
3964 kHz
Mondays at 6:30PM
State ARES
3964 kHz, first/third
Tuesdays at 7 PM.

President's Message

Greetings to all of the UVARC members.

For our March meeting we plan on having Wayne, W9AE give a presentation on "Sound Card Digital Communication". Wayne has done several presentations before for the club and they have all been quite good and very informative.

Doug, WB6MFV gave a great presentation on Echolink at our February meeting. We had a record turnout for the meeting and I am sure everyone enjoyed his presentation. Thanks Doug!

The Salem Amateur Radio Club Hamfair at Rickreall was a nice show this year. Quite a few people from the club were there. I found a few bargains myself. I am spending some of my spare time trying to get my bargain triband beam and rotor up on the tower.

For those in the club who are also members of the DCARES group, Jerry KB7WDR, and Tom W7TCH, have been working on getting a new call for the ARES group and the ARES repeater.

In the repeater department the 146.900 Lane Mt. repeater is running good. The 147.120 Boomer Hill repeater is back to working when it wants to, but does work most of the time. The DC packet node 144.930 is working great.

The UHF repeater with VHF remote, 441.875 is back up and running. We changed the pl tone to 88.5 and it is also transmitting that tone if you want to use CTCSS with it. Doug made a few changes in the controller to help conserve power as this is running on solar power only.

The next VE session is March 8, 2009 at 6:00 P.M. at the courthouse Room 310. Don't forget to bring a copy of your original license if you are upgrading. You also need some form of acceptable identification. The new VEC license fee for 2009 is \$15.00.

Mel Trammell, AB7DC has turned over the job of VE liaison to me as of the first of this year. Mel has dedicated many hours in that capacity over the past 15 or so years and made it possible to have VE testing here in Roseburg. Thanks Mel.

Jim WA6KHG

Feb. 19 Meeting minutes

By Russ W7DUR

32 present.

Jim opened the meeting - roll call-

Reading of the minutes of Jan meeting:

Treasurer report: We have \$91 in the repeater fund.

Membership is now at 67.

Jim WA6KHG reported that 13 attended the Ham License test on Feb 11, with 12 passing the test. We now have 3 new General class and 9 new Technician class operators. Tom and Judy Canada have 88 acres, surrounded by BLM and Forest Service land near Tiller. Until they passed their Technician Class on the 11th they had very few options to communicate with the rest of the world because they were so remote. They now have Amateur Radio.

Field day locations: Jerry KB7WDR talked with a Glide School official about the High School area it is \$100 for the weekend but they want their name on our insurance policy for the event... Doug Hanson WB6MFV has a field available at no charge in the Deer Creek area but we will need portable toilets. Another member reported the Masonic Park, Roberts Creek road might be available; he will investigate and let us know.

Doug Hanson WB6MFV did a nice presentation on Echo Link operation. He connected to the internet and connected to several stations during the presentation. He connected to a former member of the club, Bob W6REB in Capitola, California. Bob had a lot to do with the 146.900 repeater in its early days.

Thanks to the Red Cross for use of their projector for the presentation.

Ham Radio Equipment For Sale

Dick Wharton N6MOK announced that he will sell his ham radio equipment at **10AM Saturday morning, March 7**, at his house (1799 NW Apache Drive, Roseburg). Please do not arrive early, as he has other responsibilities to take care of before the sale begins.

He will have a price for each item, but the price can be negotiated. Payment in cash is preferred.

UVARC REPEATERS

146.900-, PL 100 (Lane Mountain)

147.120-, PL 100 (Boomer Hill)

PACKET

Node - 144.930, DC:WB6RHW-1

New URL for UVARC Web Page

<http://aa7gc.net/uvarc/>

NOTES:

1. Watt's Up is **on line** in the UVARC web Page. It may be viewed in PDF format.
2. Members **E-mail addresses** are on the web page as a link. Password required.
3. The **club roster** is included in the web page as a link. Password required.
4. Club **constitution** is available as a linked page.
5. Back issues of **Watt's Up** are available through the club web page in PDF format.

VE Testing in Douglas County

Testing sessions are affiliated with the ARRL. They are scheduled the second Wednesday of even months except August. Sessions are held in Roseburg at the Douglas County Courthouse, room 310, 6 PM.

ARRL VEC Test Fee for 2009 is \$15.00

This fee is charged once, no matter whether taking any one, two, three or all four test elements, one time. Retests of an element failed at the same test session will require payment of an additional test fee.

Testing Dates

Second Wednesday of each even Month

February 11

April 8

June 10

August - None

October 14

December 9

For further information contact Jim WA6KHG,
at (541) 496-2262



SUNSHINE

If you hear of someone who is ill or in the hospital, please let me know. Also notify me of any silent keys.

Russ Nelson, W7DUR, at 440-3840

Ned Landis WO7A, SK

Message from Susan Landis on February 28th:

Ned died today around 5pm. He died very peacefully, and he had spent the day surrounded by family & friends who loved him. We are tentatively planning his funeral for Thursday, March 5, and we are also thinking about having a prayer service at Taylor's Mortuary in Winston the night before with a wake to follow at our home.

Message from Jerry, KB7WDR:

NO7V, this is KB7WDR, NO7V, KB7WDR, In vain I call! He passed into realm beyond the valley of the shadow of death. The airwaves that heard him, will hear him no more, but his memory is written in our amateur radio log books, and in our hearts. I give thanks to God for the privilege of knowing such a good man.

KB7WDR clear.

Julius Genachowski Nominated as Next FCC Chairman

On Tuesday, March 3, [President Barack Obama nominated Julius Genachowski](#) as FCC Chairman. Genachowski, 46, is a technology executive and a former classmate of Obama's from Harvard Law School. Upon Senate confirmation, Genachowski will replace Acting FCC Chairman [Michael Copps](#); Copps [took over the Commission](#) on January 22, 2009, two days after then-Chairman [Kevin Martin resigned](#). Genachowski has been widely praised by industry executives and consumer-activist groups -- two groups often at odds -- for his wide-ranging experience and intimate knowledge of technology issues.

"I can think of no one better than Julius Genachowski to serve as chairman of the Federal Communications Commission," said President Obama. "He will bring to the job diverse and unparalleled experience in communications and technology, with two decades of accomplishment in the private sector and public service. I know him as the son of immigrants who carries a deep appreciation for this country and the American dream; and as the proud father of three children working with his wife Rachel to be responsible parents in this digital age."

According to the [Wall Street Journal](#), speculation has been rife as to why President Obama had not put forth Genachowski's name before now, saying that "his nomination has centered on the administration's efforts to find at least one more nominee -- more likely two -- to fill other open spots on the FCC's five-person board. Agency nominations tend to move through the Senate more quickly if a Democratic nominee is paired with a Republican nominee."

After graduating from law school, Genachowski clerked for federal judge Abner Mikva; he also clerked for Supreme Court Justice David Souter. Genachowski later served as chief counsel to [Reed Hundt](#), chairman of the FCC from 1993-1997. After leaving the FCC, Genachowski was a senior executive at IAC/InterActiveCorp, Barry Diller's e-commerce and media company. He went on to found an investment and advisory firm for digital media companies and co-founded the country's first commercial "green" bank. According to Obama's campaign Web site, Genachowski raised at least \$500,000 for Obama during the presidential election campaign.

MEMBERSHIP 2009

As of March 1, 2009 membership is 65.

Each month updated information will be provided in this space so members may keep their roster current.

Please take the time to review your information and notify me of any corrections or changes.

I may be reached via:

1. E-mail: aa7gc@arrl.net
 2. Telephone: (253) 631-3467
 3. Regular Mail: 15823 SE 254th Pl., Covington, WA 98042-4183
- 73, de Dick, AA7GC, Membership

** NEW E-MAIL ADDRESS **

KE7JFQ, Hutch, hutchandjeanne@gmail.com

KE7LDZ, John, ke7ldz@arrl.net

**DAYLIGHT SAVINGS TIME BEGINS ON
SUNDAY 3/08/2009—SET CLOCKS AHEAD ONE
HOUR !**

Ham Radio Quiz: The Yagi Antenna

By Ward Silver, N0AX

- 1) A parasitic element...
 - a. is connected to the feed line.
 - b. is not connected to the feed line.
 - c. must be parallel to the feed line.
 - d. is only for mechanical balance.
- 2) Directors are (longer) (shorter) than reflectors.
- 3) Directors are (longer) (shorter) than the driven element.
- 4) Second directors are (longer) (shorter) than the first directors.
- 5) A Yagi's driven element generally has a feedpoint impedance (lower) (higher) than 50 ohms.
- 6) Which of following is NOT a useful transmission-line impedance matching design to transform the Yagi driven-element impedance to 50 ohms for coax feed?
 - a. Strip-line
 - b. Gamma match
 - c. Beta match
 - d. Hairpin
- 7) "Plumber's Delight" construction means that all elements are...
 - a. made from threaded pipe.
 - b. not insulated from the boom.
 - c. at the same RF potential.
 - d. trapped.
- 8) A "driven cell" refers to...
 - a. a loop used as the driven element.
 - b. two or more driven elements.
 - c. more than one Yagi on a single mast.
 - d. extra-strong rotator hardware.
- 9) Reflectors have self-resonant frequencies (higher) (lower) than that of the driven element.
- 10) Adding parasitic elements is done to improve the antenna's...
 - a. front-to-back ratio.
 - b. forward gain.
 - c. both (a) and (b)
 - d. neither
- 11) The Yagi antenna was first described in...
 - a. 1926-28.
 - b. 1936.
 - c. 1946.
 - d. 1962.
- 12) The "2:1 Bandwidth" of a Yagi refers to the frequency range over which the antenna maintains a...

- a. 2-to-1 SWR or less.
 - b. front-to-back ratio of at least 3 dB.
 - c. forward gain of at least 3 dB.
 - d. efficiency of 90 percent or greater.
- 13) A "quagi" is...
 - a. an array of four Yagis.
 - b. a Yagi with one or more quad-loop elements.
 - c. a quasi-Yagi design.
 - d. a lightweight Yagi.
 - 14) "Tapered elements" are...
 - a. spaced closer together at one end of the antenna.
 - b. covered with insulating tape.
 - c. smaller in diameter at their tips than in their centers.
 - d. no longer in general use.
 - 15) Increasing the number of elements in a Yagi (increases) (decreases) the antenna pattern beamwidth.
- Bonus Question:* Who was Dr Yagi's co-inventor of the antenna that is now only known by Yagi's name?
- Answers:**
1. b -- The currents in a parasitic element are created by the field from the driven element. No direct connection to the feed line is needed.
 2. shorter
 3. shorter
 4. shorter
 5. lower -- A typical Yagi's feedpoint impedance is in the neighborhood of 20 ohms.
 6. a -- The gamma, beta, and hairpin (another name for the beta match) are all widely used to connect a 50 ohm feed line to a Yagi driven element.
 7. b -- This type of construction allows all-metal mounting hardware, simplifying construction and placing all of the antenna at the same dc potential for grounding.
 8. b -- Using multiple driven elements improves the feedpoint impedance stability over the frequency range.
 9. lower
 10. c -- Both gain and rejection of signals to the rear is improved by proper placement of parasitic elements.
 11. a -- The antennas were described in the Japanese IEE journals in 1926 and 1927, while the English papers were published in the IRE journal in 1928.
 12. a -- This is often referred to as "SWR bandwidth."
 13. b -- The broader frequency vs impedance characteristics of the loop help increase the SWR bandwidth of the antenna.
 14. c -- Tapering reduces antenna weight and wind load.
 15. decreases -- An antenna with more elements generally has a narrower or sharper radiation pattern.

Bonus - Dr Uda was the co-inventor of the "Yagi-Uda Array," known today by the simpler name.

UVARC Spotlight: Jim WA6KHG and Doris KC6CWP

This month we have a few pictures of the ham shack that Jim and Doris share.



Top left: Overview of the shack. A power supply and VHF amplifier are on the floor, not shown.

Center left: Uniden HR-2600 10m all-mode transceiver and 3 VHF/UHF FM transceivers, plus a Bencher CW key.

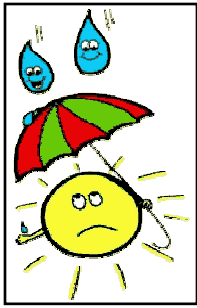
Lower left: Ameritron AL-811H 800W HF linear amplifier and Ameritron 5-position remote antenna switch controller.

Above: HF transceivers and MFJ antenna tuner. The radio on the bottom is a Kenwood TS-2000. The radio on the middle shelf is an Icom IC-718.



Editor's note:

Your ham pictures could be in next month's UVARC Spotlight. Please email a description and pictures of your shack, antennas, mobile installation, etc. to: w9ae@charter.net.



Just a reminder: If you have e-mail capability, Let Russ, W7DUR know! you'll be able to see all pictures in color and save some money for the club !

March 2009

Sun Mon Tue Wed Thu Fri Sat

1	2 DC ARES net 6:30 PM 145.430 rpt	3 Oregon state ARES HF net 3964 kHz, 7 PM	4 UVARC net 7 PM 146.90 rpt	5	6	7 N6MOK eqmt sale 10AM Club Breakfast Rsbg IHOP 7AM
8 Daylight Savings Time Begins	9 DC ARES net 6:30 PM 145.430 rpt	10	11 UVARC net 7 PM 146.90 rpt	12	13	14 Club Breakfast Rsbg. IHOP 7 AM
15	16 DC ARES net 6:30 PM 145.430 rpt	17 Oregon state ARES HF net 3964 kHz, 7 PM	18 UVARC net 7 PM 146.90 rpt	19 Club Meeting 7PM court house Room 310	20	21 Club Breakfast Rsbg IHOP 7AM
22	23 DC ARES net 6:30 PM 145.430 rpt	24	25 UVARC net 7 PM 146.90 rpt	26	27	28 Club Breakfast Rsbg IHOP 7AM
29	30 DC ARES net 6:30 PM 145.430 rpt	31				

ON-LINE FORM AVAILABLE ON CLUB WEB PAGE

UMPQUA VALLEY AMATEUR RADIO CLUB, INC

ON-LINE FORM AVAILABLE ON CLUB WEB PAGE

NAME _____ CALL SIGN _____ LICENSE CLASS _____

STREET _____ CITY/STATE _____ ZIP _____

ARRL MEMBER YES [] NO [] E-mail Address _____

Other names at your address desiring family membership

NAME _____ CALL SIGN _____ LICENSE CLASS _____ ARRL MEMBER YES [] NO []

NAME _____ CALL SIGN _____ LICENSE CLASS _____ ARRL MEMBER YES [] NO []

Please show names the way you want them to appear in the roster

HOME PHONE _____ RECEIVE YOUR NEWS LETTER BY: U.S. MAIL [] OR E-MAIL (PDF) []

RENEWAL _____ *AMT. ENCLOSED _____ DATE _____ **DATE OF BIRTH (STUDENTS)** _____

SPOUSE'S NAME _____ SIGNATURE _____

Membership dues are \$10.00 for individuals and \$5.00 for each additional family member living at the same address per calendar year. Associate membership dues are \$5.00. Dues are prorated (NEW members only): Jan - Mar \$10/5 (each additional member); Apr - Jun \$7.50/3.75; Jul - Sep \$5/2.50; Oct - Dec \$2.50/1.25. Membership is free for **Licensed** students, 18 and younger. Make checks payable to: **UVARC, PO Box 925, Roseburg, OR 97470.**