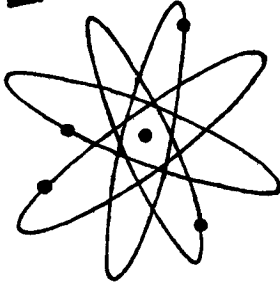
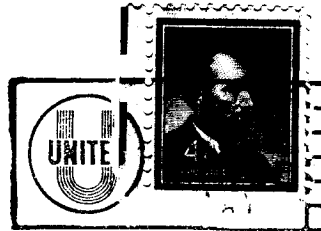


# W4CA LOG



*Amateur Radio News in  
The Roanoke Valley*

W4CA LOG  
P.O. Box 2002  
ROANOKE, VA.



Van Wimmer  
Box 2141  
Martinsville, Va.

Published Monthly by

# Roanoke Valley Amateur Radio Club, Inc.

**W4CA LOG**  
**P.O. Box 2002**  
**ROANOKE, VA.**

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### ANNUAL BANQUET & OFFICER INSTALLATION.

October 8, 1965, at TOBY'S LODGE, on Route 419, at 6:30. The club will pay all meal costs above \$1.00 per person. Members may bring one guest on this plan. (Cost for man & wife or guest--\$2.00 total). The Ham of the Year Award will be presented. Attendance awards. Door prizes. Dance after banquet.

### OCTOBER MEETING NOTICES

1. Tobys Lodge Oct. 8. see above.
2. October 22, National Guard Armory. Phil Sharr lecture on Extra Class theory.

### NEW OFFICERS FOR 65-66

PRESIDENT.....JOHN FERRELL	K4YZN	DIRECTORS	
TREASURER.....BOB ANDERSON	K4UMK	ACTIVITIES,...	JIM EVANS K4RDT
SECRETARY.....BRYANT WALKER	K4DYW	Education.....	GEORGE CHILMAN K4WYR
		PUBLICITY.....	VIRGIL TESTERMAN WA4CVE
		CD-EQUIPMENT..	FRED BUTT W4JXE

The nominating committee, working under somewhat of a handicap, has come through with a good job. The club elected the above as a group, and it is hoped that this year will see many more members qualifying to run for office. The nominating committee also recommended some changes, and the by laws will be ammended shortly to allow the changes. President John Ferrell has already been working on his list of committee members, and will shortly announce who is expected to do each job.

### CONVENTION.

The Roanoke Division Convention, to be held at Natural Bridge this coming May, should present a challenge to each member, to try and help with this event. There is a lot to do, and it will be a struggle to get it over, as we well remember the work done on the last one.

### Club work.

Shortly, we will have a membership committee working to build up our attendance, get new members, and get back some of the old ones who have drifted away. We hope that you will lend this committee your support. Bear with us on the parking problem at the Armory, and lets hope another season will see us in the building at Salem. One of our projects for this year should be a permanant meeting place without parking problems.

We have has several technical lectures this year, and only one night did we not have some kind of program. It was an unexpected thing, and we did not have time to work up a replacement or get film. We are going to continue to try and have good programs, now the membership should make every effort to attend, and BRING A HAM with you, whether he is a member or not. If he's not let's sign him up. Maybe we can get some kind of contest going and award a nice prize for the member who signs up the most new members.

There's strength in numbers, so lets get going again. With everyone doi a bit, no one had to do a lot.

See you at TOBY'S Friday night.



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# The Widders News

REPORTER - - HILDA FERRELL



HILDA



Our September meeting was at Greta Dickerson's with Hilda Ferrell as co-hostess. After a short business meeting Linda Wagner was honored with a baby shower. She received a lot of nice gifts for her new baby boy. We played games and had refreshments. (Was it the excitement from the games or the "punch" that caused one girl to fall to the floor?)

We discussed the Christmas Banquet but haven't decided on the location yet.

Congratulations to Jim and Eunice Evans on their 25th Wedding Anniversary on Sept. 25th. Hope you have twenty five more.

Our October meeting will be at the home of Romona Kegley with Phoebe Cole as Co-hostess. Romona lives at 3630 Colony Lane S.W.

The November meeting will be at either Virginia Rudolph's or Nita Bowman's. (Which ever one loses.)

See you at club meeting on Oct. 15th.



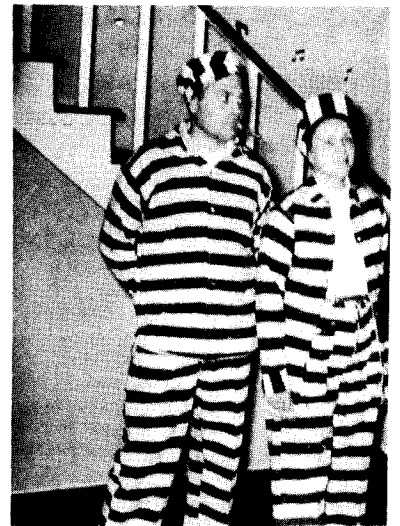
This picture was made at the Hamfest in May, 1965.

rl & June were attending the fountain.

*YOU Know Old-age  
Is At Least Coming On,  
When Your Get-up And-Go  
Has Got Up And Gone!*

*I'VE NEVER SEEN A Flying Saucer;  
I Have No Hope Of Seein' One.  
But I Can Tell You, Anyhow,  
I'd Rather See Than Be In One!*

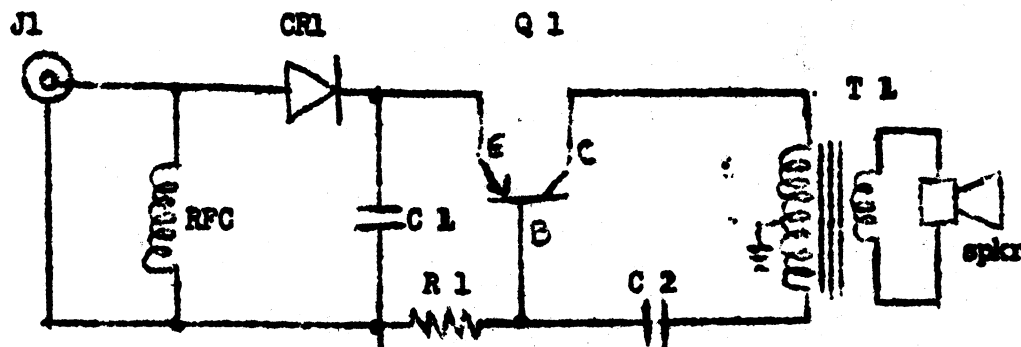
*THERE'S Much To Do; But Strange To Say,  
It's Done By Those Whose Ev'ry Day  
Is Full Of Things To Do; While They  
Who Lack A Task, Most Idle Stay.*



This is the way it feels after twenty-five yrs.

# W6SD CARRIER

## SELF-POWERED CW MONITOR



- 1 Transistor Socket
- C-1 .01muf 500 volt disc ceramic.  
C-2 .02muf 200 volt paper  
J-1 RCA phono type jack  
RFC 2.5 mh RF choke  
R-1 15,000 ohm,  $\frac{1}{2}$  watt/or 25K to 50K pot.

### PARTS LIST

- T-1 Output transformer (Merit A-2900 or Thordarson 24S60)  
CR-1 1N34 or 1N66 crystal diode.  
Q-1 CK 722 or similar transistor.

The few parts needed for this simple device are no doubt hidden somewhere in a box around the ham shack. This monitor can be assembled in any small minibox or meter case that will accommodate a 3 or 4 ohm 3-inch FM speaker. If possible, make all chassis grounds at one common connection. It would be best to insert a transistor socket in the unit so that it will be easier to experiment with different types of transistors if necessary. The audio frequency can be varied by replacing the fixed resistor R1 with a 25K to 50K potentiometer.

The input lead is made of small coaxial cable connected to a RCA type phono jack mounted at any convenient location

on the back of the monitor. I have built several of these little units and have found the results excellent when one was attached to the back of a Johnson Matchbox (with an inside pick-up loop) and also in conjunction with a Viking Challenger. In the latter case, the coax braid was removed from 3 to 4 inches of the pick-up end of the coax and the remaining inner insulated "hot wire" was pushed down through a hole in the top of the cabinet so that it could pick up RF in the vicinity of the final. This wire must not touch any part inside the transmitter. Adjustment of its location will tend to vary the signal volume.

Tnx to the MONITOR, Lyle Baker, K5QJT



Well here we go again. It's time to try and fool the smart ones around the town. Try to guess who is in

the photo at the left. It is someone you know and is directly or indirectly connected with Amateur radio. Some of the past pics have fooled you, some were guessed right off. Let's see who can come up with the correct guess first.

# who's

ORIGINAL  
UNCENSORED  
UNRETOUCHED

# PHOTO ?

HAM RADIO DAFFYnitions

**Faraday Shield:** Inspector's badge in the old Boston Blackie radio series.

**High Pass:** Some bloke trying to is a gal on top of the ferris wheel.

**Doubler:** What Mickie mantle does when he doesn't hit a home run.

**Standing Wave:** A lady sailor who has just returned from a horse-back ride.

**Television:** A device designed to test the signal strength of a transmitter.

**Output:** The status of the cat out midnight.

**D.C.:** Direct Current: (What do you think we are, stupid or something?)

**Vacuum:** A device put out by Herbert Hoover, Jr. (At least there is a Hoover there someplace!)

**Swinging Choke:** Murder on the playground.

-o-

A glow-worm with tendencies  
Used to tell shady stories until  
But he kept up his vice  
By the clever device  
learning to blink in Morse.  
3 words per minute, no doubt).

-o-

ODE TO A TIRED 807

Wind strong,  
Antenna weak,  
Rotor stuck,  
DX bleak,

807's soft,  
Relay sticks,  
Ten's out  
So's six.

Shack's warm,  
Basement leaks,  
Final bad,  
No peaks.

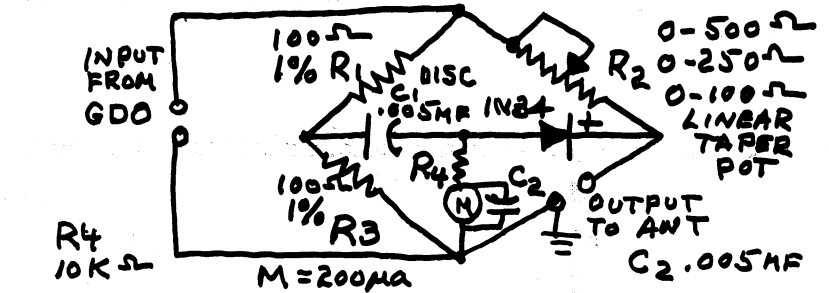
Allied called,  
Wants dough,  
Hamfest soon,  
XYL, "No!"

ZS calls,  
Zeroland,  
Dope tunes in,  
Another band.

Called CQ,  
'Til almost four,  
Next day,  
Back for more.

Sincerely,  
W0CCT

**FOR SALE  
KILOWATT  
FINAL  
W/ACCESSORIES  
CALL  
774-2912  
WRITE  
MIKE KAVANAUGH  
RT 7 BOX 412**



This antenna analyzer can determine antenna and feedline resonance, system impedance, SWR, and radiation resistance. The analyzer requires an input signal from your VFO, or your Grid Dip Oscillator. A one or two turn coil is used as an RF pick up link for the input to the analyzer. If you use a grid dip oscillator the link coil should be coupled close to the oscillator coil. The analyzer range is up to 30 mc., R2 being the measuring potentiometer must be insulated from the mini box or cabinet with an insulated bushing. The method I used was to punch a 1" hole into the panel side of the box, then I used a 2" square piece of phenolic board 1/8" thick. This board was mounted against the inside of the box panel over the 1" hole. A 3/8" hole was drilled in the center of the board for mounting the pot. If a vfo is used as an RF source, resistor R4 should be a 47K ohms. This is to prevent driving the meter M1 off scale. Calibration of R2 is done by setting it fully counter clockwise, then connect an ohm meter across it, rotate R2 until the ohm meter indicates 25 ohms then put a mark on the panel for 25 ohms. Do the same for 50, 75, 100, 150, 200, etc. Mount and wire the pot into the circuit. If your only interested in the low ranges you can use a 0 - 100 ohm pot. To check the analyzer couple an RF signal into the input coil, connect a carbon 50 ohm resistor across the output connector. Rotate R2 to 50 ohms, the meter M1 should then drop to a null indication. A halfwave or a multiple of a halfwave length feedline should be used for making antenna measurements. To determine the exact length of line needed, cut the line a little longer than the calculated length, connect it to the output of the analyzer with a signal at your frequency. Set R2 to zero and short the open end of the line, M1 will indicate up scale. Cut off small sections of the line shorting the end after each cut until a null is reached on M1. For quarterwave length lines the same method is used except that the open end is not shorted. Now connect your antenna to the line, rotate R2 for a null. This setting is the antenna's radiation resistance (impedance). A complete null means the antenna is resistive and is properly tuned to your frequency, an antenna that does not null is reactive and not resonant. SWR can be found by dividing the antenna impedance by the line impedance, 100 ohms/50 ohms is 2 to 1. To peak tune your desired frequency on the grid dip oscillator. Set R2 to the desired impedance, then adjust the antenna, and or mat ching device (GAMMA MATCH, TEE MATCH etc.), until a null is reached, the system will then be properly tuned.

Mike Swizynski, W8ZAH  
from P. R. C. Bulletin, Cleveland, Ohio.  
Via Mike & Key

FOR SALE - HEADSET - CANNON - 25,000 OHMS  
W4ZZV - 343-0757

FOR SALE Call Steve Thompson, K4WVT, at 366-6812

Heath HW-12 80-meter SSB transceiver. 200 watts PEP LSB. With VFO, VOX, PTT. Assembled but never used. \$130. Will put you in touch with the owner.

HANDY FORMULA REFERENCE CHART

