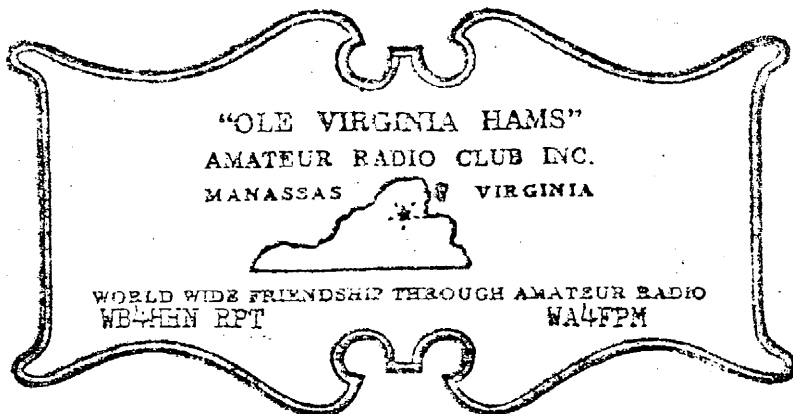


P. O. BOX 1255  
MANASSAS, VA. 22110.

CLUB REPEATER  
146.37/.97  
EDITOR, Steve Meade KB4OF

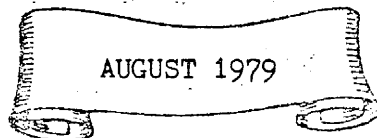


The Club meets on the SECOND MONDAY of each month at the Manassas Park Recreation Center, on Old Centreville Rd, Manassas Park, Va. Meetings start at 8:00 PM and visitors are always welcome.

The next meeting will be on Monday, August 13.

CLUB OFFICERS:

President Jay Watkins AC4N Secretary Steve Meade KB4OF  
Vice President Herb Plummer W4PJP Treasurer Ed Fleming WD4AVU



NEW MEMBER

At the last club meeting, the members present voted to accept Curtis Walker N4AYY, as a new member. Welcome to the club Curt!!!

QSL'S?

I have a current stock of QSL samples and prices from various printers. If you have need of getting new QSL cards, get in touch with me, and you can look over the samples. I recently had to get some new cards, that's why I have the samples. And, I am not in the QSL card business! Steve KB4OF

PROGRAM AT NEXT MEETING

The program at this month's meeting will be presented by a representative from Prince William Electric Co-Operative concerning the Load Management Program and PWEC's use of radio controlled devices to turn on and off at regular intervals, the air conditioner and water heater during peak hours

The meeting will start PROMPTLY at 8:00 PM with the program starting immediately, followed by a question and answer period, after which, we will have refreshments and then proceed with the regular club business. The program should be very interesting and there should be many questions being directed to their representative. ENJOY!!!

SURGERY

Janet Ahalt N4BEG, was in the Intensive Care Ward of Prince William Hospital last week following surgery. Heard Janet talking to her husband Hank N4AZC on the 146.37/.97 repeater today. I know all of us are wishing her a speedy and complete recovery from her operation.

### RED CROSS

After months of negotiating between the Red Cross and the OVH, current progress concerning establishing a club station in their building, has reached a standstill. The board of directors at the Red Cross apparently meets once every two months. At their upcoming meeting, it seems that they will be directing most of their energies to welcoming their new director. This comes as a very sudden and worrisome surprise. The OVH can only pause and watch what transpires at this point.

### ARRL BOOKS

A letter was obtained from the Prince William County Public Library and sent to the ARRL along with a check from us, which buys the complete set of ARRL publications at a substantially lower price for the library. Other books concerning amateur radio will also be obtained in the near future.

### LETTER OF THANKS

A letter was received from Vic Clark W4KFC, expressing his thanks to the many members of the club who sent cards and notes during his recent unscheduled trip to the hospital. Not to mention the visits and phone calls, they were all much appreciated. Vic is getting along fine, and he took part in an ARRL board meeting a few weeks back, his first "outing." Welcome back Vic!!!

### CHILDRENS INTERNATIONAL FESTIVAL

The eighth annual Childrens International Festival will be held at Wolf Trap Farm Park during September 1 - 3, over Labor Day Weekend. Last year, Dean WD4OJZ and Harry W4PVA, took part and enjoyed it. Both expect to go again this year.

Mark WD4LWD, is coordinating a collection of hams to supply communications for this event, and would like to have you phone him. Giving him the day or days that you will be able to come to the park and help. Operations will be on two meters and portable equipment would be desired. You can contact Mark WD4LWD, on the 146.19/.79 machine, or phone him at (703) 534-4422 (Falls Church) or call Harry W4PVA, and he will relay your information. Harry Vorhauer W4PVA

### TAX PROBLEMS AT HAMFESTS

It appears that the Office of Revenue of the State of Virginia and county revenue offices have set their sights on hamfests, for all of the possible taxes that might be able to be obtained from them.

After talking with Dick W4HXB at the Berryville Hamfest, it seems that both the county and state revenue offices have gotten involved, at least at their hamfest, and more than likely, at ours next year!

The county wants most of their's outright, by the club having to buy a \$200.00 license in order to hold the fest. The state fellows, informed the Shenandoah Valley Amateur Radio Club that they would have to inform all commercial exhibitors at the fest, that they would have to charge a state sales tax on all of their sales, which in turn, would have to be turned over to SVARC, which would then turn them into the state. This is supposed to insure that Clarke County, which is where the hamfest is located, would receive their portion of the sales tax.

All of this definitely cut into the number of commercial exhibitors who showed up at the hamfest. By the way, revenue agents were walking around the tailgaters area checking to see if there were any commercial people selling their wares out there.

Steve Meade KB4OF

WHAT AND WHERE FOR EMERGENCY CALLS

When making an emergency autopatch, or taking a call for relay. Give specific locations, street names or milepost markers, if possible. If none are available, give approximate mileage from the nearest town, or give the location of the nearest unusual landmark such as a building or natural formation. Bystanders are frequently a good source of information if you are a stranger in the area. It's a good idea to WRITE DOWN the info, too.

Tell what it is you are reporting:  
ie: accident, drowning, fire, etc.

- 1) Are there injuries? If so, how many people and to what extent?
- 2) Is an ambulance needed?
- 3) Is anybody pinned inside a vehicle?
- 4) Is there a fire, or danger of one?
- 5) Is traffic blocked?
- 6) How many vehicles are involved and what type?
- 7) Is a wrecker needed?
- 8) If a truck is involved, is it empty or loaded? What type of cargo? Trucks often carry hazardous materials.
- 9) Are there any unusual road conditions?  
After your report has been transmitted, stay by your radio until you receive confirmation that your report has been relayed to the emergency service agency. There may be additional information required.

HP9 CALLS OFF LIMITS TO AMATEURS

ARRL/IARU Headquarters has confirmed with the government of Panama that HP9 calls have never been issued for use on the amateur bands.

The prefix designates commercial maritime users, and the bearers of such calls are expressly prohibited from using the amateur frequencies. U.S. and Canadian amateurs are therefore advised that communications of any kind with HP9 callsigns, including third party traffic, is not legal.

See FCC Rules and Regulations Part 97.89 and DOC General Radio Regulation Part 2, Section 52, Subsection 1.

Taken from WORLDRADIO July 1979.

CHANGES, ADDITIONS, AND CORRECTIONS TO ROSTER

WALKER, CURT E.	N4AYY	8611 Weems Road	368-9014
KUSE, DONN	WB4ZWT	Rt. 1 Box 408, Gainesville, VA 22065	x
SOUTER, CHUCK	WA4KZM	18629 N.E., 189th St. Woodinville, WA 98072	x
SOUTER, JOANNE	WA4KZQ	same	x
MYERS, JOHN	WA4GPS	1247 Fairlane Rd., Cary, NC 27511	x
MCKINLEY, JIM	WA4OJY	3429 South 261st Street, Kent, WA 98031	x

A SIMPLE GROUND RESISTANCE TESTER

by Frank Atkinson K4CB

How effective are your grounding electrodes? You will never know until you actually make ground resistance measurements.

A simple circuit for measuring ground resistance is given below. This method uses the Power Company's grounding system as the zero reference point.

For those who do not wish to perform the mathematical calculation, a qualitative evaluation can be made as follows: If  $V_B$  is 110 V or above, the ground resistance is good. If  $V_B$  is between 70 V and 110 V the ground resistance is fair. If  $V_B$  is less than 70 V the ground resistance is poor.

For the purist who wishes to perform the calculations to obtain quantitative values in ohms, the formula for  $R_G$  should be used. Table A shows the non-linear relationship between  $V_B$  and  $R_B$  for the 75 watt, 120 V lamp.

The grounding electrode under test should be disconnected from all other grounds and equipment.

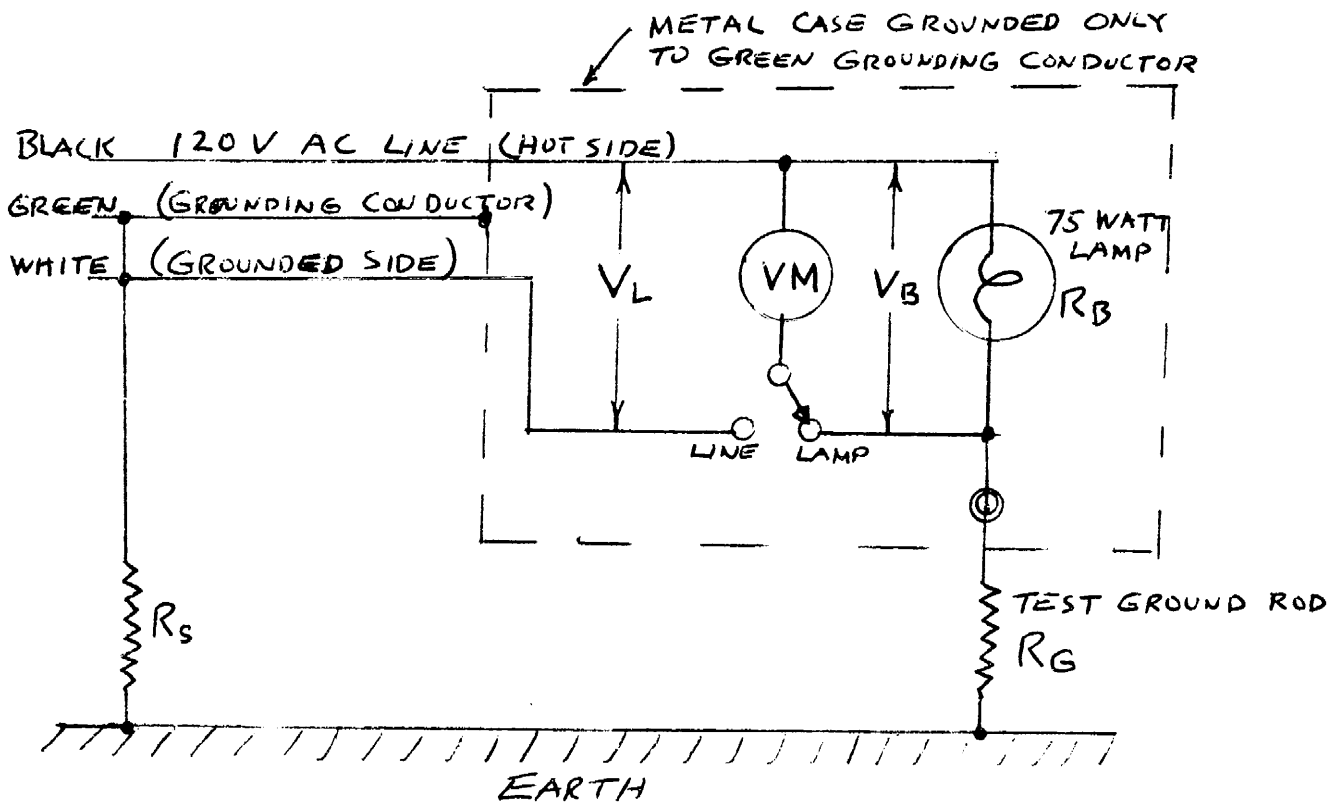
This method of testing will not work if the tester is connected to a branch circuit protected by a ground-fault detector type circuit breaker.

Caution Do not touch ground rod while test is being made or you will be in for a shock!

TABLE A.                    LAMP RESISTANCE AS A FUNCTION OF LAMP VOLTAGE

$V_B$ (volts)	$R_B$ (ohms)
130	203
120	192
110	185
100	178
90	170
80	161
70	157
60	141
50	128
40	115
30	100
20	79
10	50
0	14

-continued-



CIRCUIT DIAGRAM FOR GROUND RESISTANCE TESTER

$$R_G = R_B \left( \frac{V_L}{V_B} - 1 \right)$$

- WHERE
- $R_G$  = RESISTANCE OF GROUND ROD TO EARTH
  - $R_B$  = RESISTANCE OF LAMP BULB WITH  $V_B$  APPLIED
  - $V_B$  = VOLTAGE ACROSS LAMP
  - $V_L$  = LINE VOLTAGE
  - $R_S$  = RESISTANCE OF POWER SYSTEM GROUND  
( $R_S \ll R_G$  AND IS NOT INTRODUCED INTO THE EQUATION)