



CHERRY

JUICE



CHERRYLAND A.R.C.

TRAVERSE CITY MICH. 49684

~~NOVEMBER, 1977~~

CHERRYLAND AMATEUR RADIO CLUB
Traverse City, Michigan

CLUB OFFICERS:

Pres. - Bill Martinek, W8JUY
V. P. - Jerry Cermak, K8YVU
Treas. - Joe Novak, W8TVT
Rec. Sec. - Mary Matteson, WD8CGA
Corr. Sec. - Bill Roe, WD8EKN

BOARD OF DIRECTORS:

Paul Miller - WD8DEJ
Greg North - WB8TPR
Dave Sporny - WD8NLP

CLUB STATIONS:

WB8VKB - Wells Chapin **W8GI**
WR8AEN - Bill Martinek, W8JUY

SMASH NET - Sundays, ~~9:00 a.m.~~ **12:30 P.M.**
3935 Khz.

REPEATER FREQ. 146.25/146.85
HOLIDAY MTS - 8 PM

~~CLUB MEETINGS: We meet the fourth Tuesday of each month; the next meeting will be Tuesday, **JAN 2nd** at 7:30 p.m. at the Northwestern Mich. College Tech. Center across from McDonalds. **Jerry Cermak**, our vice president has lined up Wells, W8GI, for our program which will be on Antennas.~~

~~ANNUAL DUES: Dues are only \$5.00 per year, and each additional member in the same family may join for \$1.00. We now have over ~~44~~ paid-up members and 17 have made donations to the Repeater Fund. **62**~~

Following is a List of paid up members

BOARD MEETING: Our November Board Meeting was held Wednesday, Nov. 9 at the Elks Club. The next Board Meeting will be held Dec. 7. "Where were you on Dec. 7, 36 years ago?" Our Christmas party is planned for Monday, Dec. 12 at the Elks Club - make plans now to attend. We will need reservations by Dec. 2.

NEXT BIG EVENT: Our fourth annual Swap'n'Shop will be held Sat., Feb. 11. We will need your participation to make this worthwhile. Our Swap 'n'Shop can be the biggest and best in the middle upper peninsula with your help.

Following is a report by Bill Mader, K8TE "new call":

There is still time to gain some extra experience for Field Day 78 this month. The phone weekend of the ARRL November Sweepstakes is coming up. While the exchange is slightly different than the one used in field day, the idea is still the same. You want to make as many contacts as possible. Obtaining WAS in a weekend isn't too difficult during this contest. We can also get our club listed in the results if more than three entries are submitted.

The Sweepstakes exchange consists of a consecutive serial number, a precedence, your call, a check, and your section. Start with 001 and continue on to... The precedence is A for power levels under 200 watts DC and B for over that. The check is the year you were first licensed. And, of course, our section is Michigan. A sample message/exchange from my station would be: Number 001 K8TE 61 Michigan. You need to log the message received from each station you work. A format for a log is shown below:

BAND DATE TIME ON/OFF Time NR NR PREC, STATION WORKED CK SECTION
"TIME ON/OFF" is used to describe your periods of operation. "TIME" is used to identify each contact. The first "NR" is your number. You should pre-number the log before operating.

Bring your completed logs to the club meeting and we will complete the necessary summary sheet. If you can't make that, I will mail one to you. Any amount of contacts will help the club effort. Don't sit around waiting for someone else to PARTICIPATE, get in there and enjoy it yourself. If you made contacts in the CW weekend, get those in, too.

ARES: The last letter stands for "SERVICE" which refers to public service specifically. Through the ARES, you can fulfill the requirements described in part 97 of the FCC rules. Generally, the reaction to ARES in the Cherryland area has been less than enthusiastic. January is quickly approaching and with it comes my departure. I hope that one of you will step forward to replace me as the EC (Emergency Co-ordinator) for this area. If ARES is left to die in this area, a golden opportunity to get excellent PR for Ham Radio will die with it. Not only will the hobby as a whole suffer, but you individually, will miss out on the enjoyment of providing the service. A healthy club demands activities to keep its members enthused. I hope I can leave this area knowing one thought remained behind; PARTICIPATION is the key to enjoyment of our great hobby.

TRANSMITTER HUNT TIME:

Those of you who have participated in previous hunts know how much fun they can be. Some of you have asked for another, so that's what we will do. The only open weekend for me between now and Christmas is Thanksgiving. I know it isn't the best choice, but if you can, try to join in the fun. Even if you don't have a two meter receiver, you can participate. The hunt will start at the NMC Tech. center at 2:00 p.m. on Saturday, November 26.

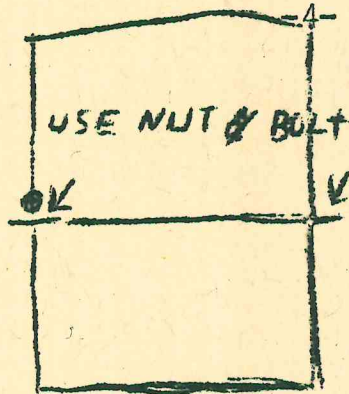
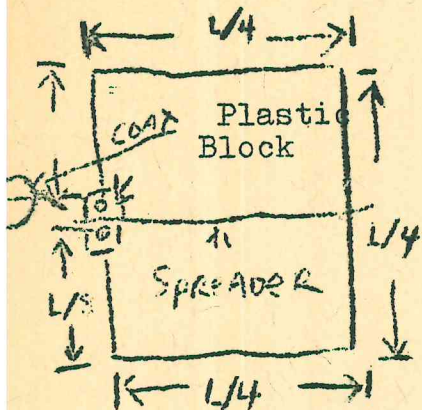
If you don't have an antenna, you could build the one described below for just a few dollars. It will work quite well for transmitter hunts as well as a fixed or portable antenna. I will bring one with me to the November club meeting, too. It is taken from the ARRL Antenna Manual. The elements are constructed of aluminum clothesline or ground wire. They are very sturdy with only one spreader for support per element. The boom is a piece of 1X1 or 1X2 wood. The spreaders are made from a non-conducting material such as fiberglass or plastic. A real cheap choice is the green sticks used to hold up plants and found in hardware stores. To join the ends together for the director and reflector, I simply bend each end into a small loop and use a nut and bolt to fasten the loops together. The same idea can be used to connect the

feedline to the driven element. It would be a smart move to use a small piece of plastic to keep each end of the driven element separated. Although, I have used electrical tape when nothing else was available.

Cut each element a couple of inches longer than required. This will provide extra wire for the loops. First straighten the wire and then cut to the proper length plus a couple of inches. Form a small loop at one end. Measure from the far end of this loop to find the first bend and continue on through the fourth bend. The measurements should be close, although being precise isn't absolutely required. After the last bend, you will have a little more length than necessary. Estimate how much the loop will use and add this to the length on the diagram. Cut off any excess and form the loop. This is the same procedure for each element. I used some scrap hook-up wire to attach each element to the spiders. I laced the wire around the element and spreader and then covered the lacing with epoxy. If the spreaders are large enough in diameter, you may want to run the elements through them and fasten accordingly. All that is required is that you have the elements mounted on spreaders. Be innovative and use whatever FREE components you may have around.

To mount the spreaders to the boom, I used small pieces of wood and large staples covered with epoxy. Using this technique, I can remove the elements from the boom to make the whole antenna more compact. Try putting a fully assembled two meter quad inside a Dodge Colt trunk. Also, this will allow you to try different element to element spacings. As mentioned in the ARRL Antenna Manual, the spacing is not critical with respect to the antenna's gain. It will affect the impedance and should be adjusted for a minimum VSWR. If you want to try to get the best match, be sure to use a short length of coax between the antenna and the bridge. A very long line will show a much lower VSWR than actually exists. To see what the actual VSWR is, use a multiple of $\frac{1}{2}$ wavelength multiplied by the velocity factor of the coax. For instance: $\frac{1}{2}$ wavelength at 146.52 MHz of RG-58 would be $L = (468/146.52) \times .66 = 2.108$ Ft for each $\frac{1}{2}$ wavelength. A more convenient length would be 5×2.108 or 10.54 Ft.

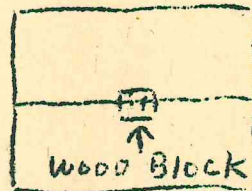
Two more aids for better performance are a non-metallic mast and an attenuator. A short wooden pole such as a mop or broom handle works very well for a mast. A simple attenuator is a SPST switch in the coax line. Just open the switch for attenuation when you get close to the hidden transmitter. It isn't as effective as a more complicated device, but it does work. An S meter helps, but it isn't absolutely necessary. In fact, even if you don't have a two meter radio right now, you can still build an antenna and participate. I will help find a radio for you to use. Get your Grand Traverse county maps and compasses ready and I'll be you on the 26th.



A & B can be varied for best VSWR
Dir. Driv. Refl.



Dir. L = 78.19" L/4 = 19.55" L/8 = 9.77"
 Driv. L = 82.31" L/4 = 20.58" L/8 = 10.29"
 Refl. L = 86.43" L/4 = 21.60" L/8 = 10.80"



Spreaders should be horizontal and the Driven element should be fed in the middle of either vertical side for vertical polarization.

REPEATER REPORT from "Big Al", W8CYO

Your new Repeater is ready, the control circuit has not been completed as yet, but we are still shooting for an in-service date of Dec. 1. We are very pleased with the new 2 meter net on Monday nights. Net control, Elgin Walt, said ten checked in the first Monday and twelve the next Monday. As for the operation of the Repeater, please, if you trigger the Repeater, identify yourself. This is not only good operating practice, but it is also FCC regulations. We will have more to report next month.

73's "A1" W8CYO

CONGRATULATIONS: to Jack, K8YZW (K6XX) for having the top score in the CQ Worldwide WPX SSB contest. He won the USA Single OP, Single Band Trophy - we are proud of you, Jack.

Don't forget our next meeting, Tuesday, Nov. 22, at 7:30 p.m. Bring a friend.

Paul, WD8DCJ, Editor