

C H E R R Y J U I C E

NOVEMBER 1975 VOL. II, NO.11 CHERRYLAND ARC, TRAVERSE CITY, MICH.

Club stations - WBSVKB - Wells Chapin, Trustee
 WRSAEN - Bill Martinek, Trustee

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NOVEMBER MEETING-- The Cherryland Amateur Radio Club will meet on Tuesday, November 25th at the Northwestern Michigan College Tech Center, Room 121, at 7:30 PM. The Tech Center is located on East Front street, directly across from MacDonald's. Coffee and cookies will be served.

The program will be in charge of Al Allen, W8CYO. His guest and the speaker of the evening will be Clyde Perkins from Boyne City. Clyde's subject will be "Digital I C's and how they work". This should be a very interesting and timely program.

Our October meeting was well attended and a great deal of business was accomplished. Of prime discussion, and final agreement, was concerning the resolution for the CARC to maintain and be responsible for the Two meter Repeater station. More about this in the President's editorial.

The Program was in charge of Bill, W8WWM, and Jack, K8YZW, and their discussion of how to participate in operating events and contests was excellent. Bill stated that certain preliminaries must be established before entering, such as: Operate with the equipment you have available, Operate within the parameters of your equipment, Compete against those with similar parameters, and design your operating position for comfort. Jack offered many suggestions for operating techniques during the contest, such as: No timidity allowed, Crunch out your best friends, arrange operation schedule for your convenience, Maintain a set frequency, Check propagation ahead of time to know best operating frequency, Train your dog to do the logging, Make use of multipliers, Read about the contest and be familiar with logging and scoring rules.

Edna, W8SEYL, served cider and doughnuts - she really put out a festive Halloween spread. Also, at the meeting, it was voted that the club should buy a coffee maker. Word from Edna is that the club is now the proud possessor of a coffee machine, and that it will be brewing a cup for you next week Tuesday.

A discussion was held and it was agreed that the wives are invited to the November meeting for the purpose of investigating the formation of a women's organization. BRING YOU XYL (orYL) NEXT TUESDAY.

Other club business which was discussed involved the date for the Christmas party and for the 3rd Annual SWAP and Shop. Further discussion of these two events was held at the November Board of Directors meeting, and the following appointments were made: Ken and Pat Musson, Chair the Christmas party (more on this later), and Bill Wader will chair the SWAP and Shop to be held on Saturday, February, 14, 1976.

An excellent board meeting was held November 3rd at Pres. Jack's house, with all board members and officers being present. Also, Frank, W8TVG and Terry, W8SPLQ, were present. Frank presented his plan for a repeater site location, which was approved with heart felt thanks. The club now has a 5 year lease on a site on Cedar Run Road. Other subjects discussed were the possibility of establishing a Worked all Cherryland Award, The continuing of the Ham of the Month Award, and ARRL affiliation. Elgin Walt, W8RNC, was appointed as club historian, and if any of the old timers of the former club have any information, newspaper clippings, or pictures of any club activities, please bring them to club meeting or contact Walt.

It was agreed that the second Tuesday of each month would be set aside for a Board of Directors meeting, and that all committee chairman are invited to attend. Al, W8CYO, has been appointed as Hospitality and Membership chairman and is in the process of contacting old club members to come again to our meetings.

Our two meter repeater operation is closer to reality, thank's to Frank's efforts in obtaining the site; Ed's, K8CWR, efforts in constructing a transmitter building; and Jerry's (K8YVU), efforts in obtaining the necessary power and telephone facilities. As of this date, the building is on the site, the telephone line is in, and hopefully this next Sunday, a crew will gather together to move some of the equipment to the new site. More reports next Tuesday.

CHAIRMAN KEN SEZ*****

The annual Christmas Party is all set for Monday, December 8, 1976, at the Mike Lodge in Traverse City. The social hour will convene at 6:30 P. M. (or 1830 hours or 2330 GMT for the purists) with a cash bar. Dinner will be ready about 7:30 PM and will be the house specialty - Barbequed Ribs, all trimmings included. Christmas prizes will be given out and a pictured trip DX-pedition to Barbados Island will be presented.

Cost for the dinner will be \$5.50 per person at the door.

We need your reservation no later than Monday, Dec. 1st. Please call Ken Musson 947-1372, or Edna Widman 41-0025.

Please plan now and call so that you may be assured of an evening filled with gaiety, laughter, prizes, fellowship, and an excellent program to boot! How can you lose on a deal like that?

THE PREZ SEZ ***** Jack's monthly editorial

Expenses involving WRS AEN presents an interesting topic for discussion. Our club has somewhat blindly accepted financial responsibility for the repeater development and subsistence which could possibly present some problems. Yearly costs, not including development, could conceivably be as much as \$250.00 per year. A financial plan must be developed to make these monies available. Recent FCC rulings make it clear a users fee may not be collected. Avenues open for exploration include donations, fund raising activities, association dues, or whatever. Clearly, our club is not able to completely support the repeater without some special subsidy. Early discussion seems inevitable, so please bring you ideas to our next meeting.

Jack, KBYZW

TREASURER'S REPORT * November 14, 1975

Cherryland ARC - General fund - balance on hand - \$225.24
Cherryland ARC - Repeater fund - balance on hand - \$53.25

**** THIS 'N THAT *****

the SMASH and WASH nets becoming more active as the winter months approach with a total of 15 calling into the SMASH net last Sunday, and a total of 20 calling into this evenings WASH net. Remember the SMASH net meets every Sunday morning at 9:00 AM on 3985 Khz, and the WASH net meets each Wednesday evening at 8:00 PM on 146.52 Mhz.

Terry's advance license class is in their final week and it appears as though all in attendance will be holders of the newer licnese. Congrats, Terry, and another job well done. And speaking of Terry, he has now started another beginners class at the Glen Lake Schools, and is preparing to set up a school station there.

Again we remind the membership of Sue Leishamn being our Sunshine chairwoman, doing a fine job, but continually needing input about any of our friends and members in sickness or distress.

Walt Coates, WSJVI, should now be firmly bedded down in Yuma, Arizona for the winter months. Don't let all that 80 degree weather get you dejected, Walt! Also, Bill, WABOZV, from Frederic, will be winding his waydown towards Homestead, Florida next week.

Congrats to Howard, WNSWLS, on his first novice contact with Dallas, Texas. Howard is a real high power nut, he operates with an output of 1 1/2 watts to a 40 meter dipole - than's more fun than running 10 KW*****.

We want to thank Jerry , WB8CVP, for his contribution to our paper.

And Again our thanks to Bill Kiker and the Midwestern Broadcasting Co. for their contribution in producing this paper.

COMMUNICATIONS IN AVIATION

Aviation communications involves many different segments of the radio spectrum. With an inexpensive receiver which includes the "aircraft" band (108-136MHz) you can tune in to all of the exciting action taking place on the airways and at the airports. If your receiver also has the Low Frequency band (190-415kHz) you can hear transcribed weather broadcasts. More about that later.

Voice communication is covered in two segments: civil (VHF: 118.00-135.95MHz) and military (UHF: 225-400MHz). I will be discussing civil aviation communication for the remainder of the article.

Until approximately 1970, the transceivers used in general aviation aircraft were 90 channel crystal-controlled ranging from 118.0 to 126.9MHz (100kHz spacing between channels). This was perfectly adequate except for one thing----the aviation industry has grown tremendously as has the number of pilots (there were 733,728 active pilots as of December 31, 1974, and only 26,045 of them were employed by scheduled U.S. airlines). Consequently, there arose a need for increased communications capacity. So the newer transceivers have been expanded to 360 channels ranging from 118.00 to 135.95 MHz (50kHz spacing).

Recently air traffic density as well as the number of aircraft has continued to increase. Also, many airports have augmented their landing systems to include air traffic control towers, approach and departure radar guidance and instrument landing systems. As a result, the newest transceivers include 720 channels (25kHz spacing). For a quick comparison of the three types of transceivers now in use observe the frequencies available in a random frequency selection of 120.0 to 120.2MHz:

<u>90 channel</u>	<u>360 channel</u>	<u>720 channel</u>
120.0	120.00	120.000
120.1	120.05	120.025
120.2	120.10	120.050
	120.15	120.075
	120.20	120.100
		120.125
		120.150
		120.175
		120.200

Now for some specific frequency information in case you are visiting any of the following airports:

TRAVERSE CITY (Cherry Capital Airport)-	Ground Control	121.80MHz		
	Tower Control	124.20		
	Flight Service Station	122.20		
	Minneapolis Control Center	124.85		
GRAND RAPIDS (Kent County Airport) -	Ground Control	121.90		
	Tower Control	119.30		
	Approach/Departure Control	124.60	128.40	125.65
	Automatic Terminal Information Service	118.85		
	Chicago Control Center	126.25	128.50	132.85

DETROIT (Metro Airport)	-	Ground Control	121.80		
		Tower Control	121.10		
		Approach/Departure Control	124.25	125.15	128.75
			118.40	118.95	
		Automatic Terminal Information Service	124.55		
		Cleveland Control Center	125.30	126.40	
CHICAGO (O'Hare International Airport)-		Ground Control	121.90	121.75	
		Tower Control	118.10	120.75	
		Approach/Departure Control	125.70	119.00	124.35
			126.20	126.05	128.45
		Automatic Terminal Information Service	135.15	(arrivals)	
			113.90		
		Chicago Control Center	127.10	133.20	128.05
			120.40	127.60	133.60
			127.95	120.35	127.10
			127.75	126.60	133.70
			125.20	135.35	132.95
LANSING (Capital City Airport)	-	Ground Control	121.90		
		Tower Control	119.90		
		Approach/Departure Control	125.90	126.65	
		Automatic Terminal Information Service	119.75		
		Cleveland Control Center	120.45	126.75	134.55
			125.30	126.40	

If you want frequency information on other airports I will be glad to look it up for you. Just drop me a postcard or call me.

I mentioned earlier that if your receiver had Low Frequency capabilities you could pick up transcribed weather broadcasts from the Traverse City Flight Service Station. The frequency is 365kHz, and this weather information is broadcast on a continuous tape loop which is revised every hour. Incidentally, if you want more information on the operations of the Flight Service Station you may as well contact its Chief: Clarence Rasmussen (W8LKR).

I will be glad to show anyone how the communications radios are set up in an aircraft. Just contact me and we might even be able to throw in an airplane ride as well.

JERRY HARTWEG
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