

P.O. Box 764 Alpena, Michigan 49707 Thunder Bay Amateur Radio Club November 26,, 2024 Minutes

Call to Order and Pledge of Allegiance @7:00PM by Mike KE8FSR

Roll Call of the Officers:

President - Mike Witt, KE8FSR

Vice President - Wayne Huggler, K8QBZ -absent

Treasurer - Dick Wiitala, W1UP

Secretary - Don Spaeth, W8DGS

3 officers +4 other paid members were present, out of 35 paid members

Announcements were made by Dick W1UP

Christmas Party will be held Dec. 13th at !st Baptist Church on Washington Ave, Alpena, W8DGS will send out an email notice.

Check https://tinyurl.com/TBARC-Christmas-Party to register and record the dish to pass that you will bring.

Approval of minutes of July's meeting. Motion made by Ron, KG8IR and seconded by Hugh, WQ8TV to accept the minutes as published on our web site (www.ThunderBayARC.org). Motion passed without any objections.

Financial report and approval – Dick W1UP presented the treasurer's report see below).

<u>Type</u>	<u>Accounts</u>	<u>Balance</u>
000	SPECIAL	\$146.14
020	SAVINGS	\$2.577.88
021	V.E.	\$74.60
022	MEMORIAL FUND	\$70.38
040	CHECKING	\$19.75
	Account totals	\$2888.75
Deposits		
Dues		\$20.00
Extra Water sale		\$325.75
Total Deposits		\$345.75

Expenses

PO Box yearly rental (debit card).....\$170.00

Motion made by Art K8GDW and seconded by Ron KG8IR to accept the treasurer's report. Motion passed with no objections.

Old Business

- 1) 76 Repeater update: Problem seems to be a firmware and there is a new update that will hopefully resolve the problem. Target installation is after Thanksgiving. (2024).
- 2) 440 Repeater is delayed probably until spring. Two possible sites for antenna are being evaluated. One is the State Police tower and the other is the old road commission tower.
- 3) Echo Link is still being worked on.
- 4) Winter field Day update: Scheduled for Jan. 25-26, 2025. Hams can operate individually or as a club. Several different formats are available. Please check this link for details. https://winterfieldday.org/sop.php

New business:

More discussion on 440 repeater.

- 1. May need better duplexers on Manning Hill site
- 2. Use of old 440 repeater as a relay to Manning Hill site
- 3. May set up (? Temporarily ?) at W1UP site
- 4. Obtain materials, feed lines, etc., for permanent location to be used at the temporary site. Cost may be \$250 range.
- n.b. 440 will penetrate concrete buildings, while 2m will not.

Presentation: "Why is Coax 50 ohms? " tinyurl.com/NovTBARC

Development of the coax concept was presented. Originally an unbalanced one wire system was used. (The ground served as the second wire). This produced extreme amount of cross-talk. Twisted pairs of wires decreased he amount of cross-talk, but it was still a problem. Heaviside, who developed Differential Calculus (Isaac Newton developed regular Calculus), and also recognized the reflective layer in the ionosphere, developed the coaxial cable. The original cable was a rigid pipe with a wire in its center. See Coaxial cable on Wikipedia.

50 ohm coaxial cable is a compromise between the lowest losses and the highest power.

Adjournment Meeting was adjourned unanimously at 8:00pm upon motion by Dick, W1UP that was seconded by Hugh WQ8T