



The BAARCer



December 2007

For Anyone Interested in Amateur Radio

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Club Call: WØUJ

Brainerd Repeaters:
 53.110 MHz- 123.0 Hz
 147.225 MHz +
 145.130 MHz- Echo Link
 Node number 233515
 443.925 MHz + 110.9 Hz
 Packet: 145.670 MHz
 BBS MNBRD, WØUJ
 Club DX Cluster:
 147.525 MHz BRDDX
 144.390 WØUJ-5 APRS
 Crosslake 147.030 MHz+
<http://brainerdham.org>

President:

Lyle Amundson KØLFV

Vice President:

Jim Talbott WØYA

Secretary:

Darrell Schneider ABØVP

Treasurer:

John Myers W3MQD

Director At Large:

John Luce WØJGY

Repeater Trustee:

Fritz Bertelt WØKO

BAARCer & WWW Editor

Mark Persons WØMH

**** Happy Holidays ****
From the BAARC



Al WØRC and John WØJGY gave a talk at the November 30th Membership Meeting on emergency communications. Details on Pages 3 and 4.

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— Events Calendar —

- Saturday, Dec. 1** 9:00 AM to 10:00 AM Informal breakfast meeting at the Northwind Grille.
- Sunday, Dec. 2** 8:00 PM to 8:30 PM Sunday Night Net on 147.225+MHz.
- Tuesday, Dec. 4** 6:30 PM **VE Testing in Brainerd.**
- Wednesday, Dec. 5** 1:00 PM to 2:00 PM Monthly siren and civil emergency test.
- Sunday, Dec. 9** 8:00 PM to 8:30 PM Sunday Night Net on 147.225+MHz.
- Thursday, Dec. 13** 4:00 PM to 5:00 PM BAARC Executive Board meets.
- Thursday, Dec. 13** 7:00 PM to 9:00 PM **Membership Meeting** at the Brainerd Fire Station.
- Saturday, Dec. 15** 9:00 AM to 10:00 AM Informal breakfast meeting at the Northwind Grille.
- Sunday, Dec. 16** 8:00 PM to 8:30 PM Sunday Night Net on 147.225+MHz.
- Sunday, Dec. 23** 8:00 PM to 8:30 PM Sunday Night Net on 147.225+ MHz.
- Monday, Dec. 24 and Tuesday, 25** **Merry Christmas**
- Thursday, Dec. 27** **Club Monthly Membership Meeting moved to December 13th.**
- Sunday, Dec. 30** 8:00 PM to 8:30 PM Sunday Night Net on 147.225+ MHz.
- Monday, Dec. 31** ARRL Straight Key Night.

November 29, 2007, 4:00 PM - BAARC Board Meeting Minutes – Brainerd Public Library

The meeting was opened by President Lyle KØLFV while in attendance were Vice-President Jim WØYA, Treasurer John W3MQD with Vi, Al WØRC, Shirley KØDCW, Director-at-Large John WØJGY, and Secretary Darrell ABØVP.

The Report of the October Board of Directors and the General Membership Meetings as published in the BAARCer were accepted as written. Treasurer John W3MQD presented the BAARC October 31st Financial Report to the Board. John WØJGY moved approval of the financial reports that after a second by Jim WØYA were unanimously approved.

Al WØRC, with comments by John WØJGY, reported on the month's activities in the public service coordination of Digital and Emergency Communications activities. The meeting was adjourned at 4:45 PM following a motion by Al WØRC and a second by John W3MQD.

Respectfully submitted, **Darrell ABØVP**, Secretary

November 29, 2007, 7:00 PM - BAARC Membership Meeting Minutes – BHS South Campus.

President Lyle KØLFV opened the meeting, held in Room 800 of the South Campus of the Brainerd High School, with twenty-one Hams and guests in attendance.

The Minutes of the October Membership Meeting as published in the BAARCer were accepted as written following a motion by Fritz WØKO that was seconded by Terry KIØFW. The October Financial Report, presented by John W3MQD, was unanimously approved following a motion by Mark WØMH and seconded by Jim WØYA.

Al WØRC, with comments by John WØJGY, reported on the month's activities in the public service coordination of Digital and Emergency Communications activities. We were all advised that this would be a good time to get a six-meter antenna ready as the BAARC has a six-meter repeater operating on the Brainerd High Rise and we will be able to use this band instead of 440 MHZ as the third element of the Sunday Night Net while there is other conflicting area activity on 440 MHZ.

Months of suspense and ceaseless campaigning were finally brought to a close by a tally of the annual voting for the BAARC Officers for next year (2008). There were no write-in votes on any of the ballots. Outgoing Vice-President Jim WØYA, with a second by Shirley KØDCW, submitted a motion for approval of the successful candidates by acclamation that was approved unanimously. Congratulations to the BAARC Officers for 2008: President Lyle KØLFV, Vice-President Steve KCØYTE, Treasurer John W3MQD, Director-at-Large John WØJGY, and Secretary Darrell ABØVP.

The December Membership Meeting will be on December 13th at the Brainerd Fire Station with a session of telling occasionally true stories and the sharing of refreshments and treats to which we will all contribute.

The business meeting was adjourned at 7:40 PM after a motion by Mark WØMH, followed by Jim WØYA's second, and a quick exit by everyone trying to be the first to the WØUJ Radio Room to consume the delicious cookies prepared by long-time President Lyle KØLFV's wonderful spouse Marilyn and for which President Lyle KØLFV washed the dishes until the wee hours of the early morning.

Respectfully submitted, **Darrell ABØVP**, Secretary



Mission Statement: The Brainerd Area Amateur Radio Club is comprised of about 85 licensed Amateur Radio Operators who meet monthly to exchange ideas, improve radio skills, organize activities that are of service to the area, promote development of Amateur Radio, and join together in the mutual interest in Ham Radio. The BAARCer newsletter is provided to club members for information and entertainment as a non-profit service. The material is supplied "as is" and without warranty. Permission is granted to copy and distribute any information published here provided the source is credited.

Because space is limited in the BAARCer newsletter, you will often find more photos and more details for club news stories on the BAARC website at: <http://brainerdham.org>

A big thanks to Jim WØYA for serving as Club Vice-President during 2005, 2006, and 2007. Many thanks also to the 2008 officers. They include Lyle KØLFV-President, Steve KCØYTE-Vice-President, Darrell ABØVP-Secretary, John W3MQD-Treasurer, and John WØJGY-Director-at-Large.

The 443.925+ Repeater at Gull Lake is down for repairs. The transmitter's power amplifier has been removed for servicing. When it is back online, we are requested not to use it on the Sunday Night Net in December and January during the John Beargrease Race. The repeater is linked to the LSAC repeater system, which is used for race coordination and planning.
<http://www.beargrease.com>

The BAARC 8 PM Sunday Night Net now includes testing the 53.110 MHz- 6-meter Brainerd Repeater. Be sure to set your rig to transmit a 123.0 Hz tone in order to open the squelch.

At breakfast on Saturday, November 3rd: Jim WØIRE, Fritz WØKO, Alan AAØAS, Bernie KØIMN, Paula WØHA, and Mark WØMH. They discussed end-fed HF antennas and the current status of the sun-spot cycle.

The November 30th BAARC Membership Meeting featured a talk entitled, "Emergency Communications." It was presented by BAARC Past-President Al WØRC and BAARC Director-at-Large John WØJGY. John had several handouts that he shared with Club members. They explained what planning was taking place in 15 different areas that the Club participates in or will be shortly.

These areas include Skywarn weather spotting that the Club has been doing for many years, but which operates differently now that the weather net is no longer run from the Crow Wing County Emergency Operations Center. Also mentioned were various organizations and agencies that are new to the Club, such as area hospitals, public health agencies, and some fire departments.

Al explained what some of this new healthcare activity would be where Amateur Radio equipment had been purchased, installed, and new hams trained and licensed, in and around Crow Wing County. "Presently", he said, "there are five area hospitals on the air, and two public health departments, with more to be added shortly."

He said there are two objectives in the healthcare system. One is to support the emergency medical services and the other for health, welfare, and administrative communications. These will be between healthcare organizations during emergency situations where usual communications paths may be overloaded or out-of-service. (continued on Page 4)

(continued from Page 3)

After the instructional protocols are written and approved, training sessions will be conducted so that each interested Club member can become familiar with his/her duties and responsibilities, the locations they may be asked to perform from, how that organization operates, how to process radio traffic, and so on. John compared this to the way Skywarn training, credentialing, and reporting to the National Weather Service (NWS) works. He handed out a completed (albeit in "draft" form) two-page operating protocol for Skywarn as an example of what each one would follow, at least in form.

John added, the NWS has upgraded its facility in Duluth to make use of APRS data sent in by Hams who are in service doing weather spotting. This simplifies greatly the need for lengthy and often time-consuming directions to and from locations as the weather spotter locations are always on the APRS display screen that they can overlay on their weather radar information, according to John, who attended a meeting there recently.

At the program conclusion interested members were asked to complete the BAARC Emergency Services Registration Form and forward it to John so that up-to-date information would be on hand as to members' equipment and contact preferences.

BAARC Emergency Service Registration Form

Name: _____ Call: _____

Address: _____ City: _____

Zip: _____ Home Phone: _____ Work Phone: _____

Cell Phone/Pager: _____ E-Mail Address: _____

Packet PBSS Call Sign: _____ License Class: _____

Primary Radio Interest _____

List bands and modes you can operate _____

Can you operate your home station without commercial power? ()Yes ()No
If Yes, what bands? _____

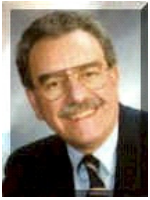
Are you interested in being on the planning committee? ()Yes ()No

Signature: _____ Date: _____

Please print the form, fill it out, and mail it to:

John Luce WØJGY
28045 Sunset Valley Road
Pequot Lakes, MN 56472

Halloween: No Tricks, Only Treats for Lakes Area Public Safety Folks



The BAARC Annual Ghost and Goblin Patrol came off again this year without any tricks or glitches as far as our service according to the public safety folks we assisted. Ham Radio again provided good service to the community, according to Scott Heide, Communications Supervisor at the Crow Wing County Sheriff's Office. He operates the area 911 Dispatch Center in Brainerd.

Mobile radio operators in the various communities were Alan AAØAS, John W3MQD, and Jason KCØYXD in Pequot Lakes and Nisswa, Dave KCØTGT in Crosby-Ironton, Terry KIØFW, and Jon KBØMNM (with Karen) in Baxter, and Jim KØLIO with KBØMNM also in the Brainerd Area. John WØJGY was the Net Control operator from the Crow Wing County Law Enforcement Center.

Several public safety responses were made this year at the request of the dispatchers. They included observations of large groups of youths and also being on the "look-out" for several suspicious vehicles reported by the public over 911. These calls were in both Baxter and Crosby. All-in-all, by past year comparisons, this was a "quiet" year for activity.

All equipment and procedures worked fine. Terry and Jim each got special guided tours of the 911 Center and saw firsthand how software-controlled radio systems worked. Terry remarked to the dispatch center supervisor at one point after observing her for a few minutes, "I think you were the one who invented multi-tasking." She truly was handling many tasks simultaneously and managing to keep everything in order. **John WØJGY**

Sunday Night Net Control Stations: Thanks to all of you who have volunteered to do this. Also I appreciate those of you who fill in when you do not hear the net being started. Check the full-year's listing on the BAARC website. Every BAARCer has the NCS listings for the current month and for the next one. If you cannot make it on your assigned night, please find a substitute (perhaps trade a Sunday with another Club member). Questions? Call me at 829 1329 or e-mail me at finn.kraut "at" charter.net—thanks. de **Fritz WØKO**

From the Mailbag November 30, 2007: The Iron Range Net meets Saturdays at 8 AM on 3.919Mhz. It is a fellowship net for the hams on the Iron Range, but all other hams are invited to participate. Thanks and 73, Ron WAØWNV in Hoyt Lakes, MN.

At Breakfast on Saturday, November 17th: Jim WØIRE, Jim WØYA, Lyle KØLFV, Al WØRC, Shirley KØDCW, John WØJGY, John's wife Terri, Fritz WØKO, Darrell ABØVP, Alan AAØAS, Terry KIØFW, Paula WØHA, Mark WØMH, and Tom KØHHF. Most attended the meeting on emergency communications after breakfast.

Ten years ago in the BAARCer: BAARC volunteers participated in a disaster drill at the Crow Wing County Regional Airport along with law enforcement and the Brainerd Fire Department. They coordinated rescuing people from a crashed cargo plane in the successful exercise.

The BAARC will be involved in the new year providing communications for the Annual Jaycees **\$150,000 Fishing Extravaganza** on Gull Lake. The event is scheduled for Saturday, January 26th. Volunteer Hams will be needed to help at this fun activity. Sign up with John WØJGY. Watch for more details in the next BAARCer.



There were two major projects on the trailer. They were to install new foldaway steps and design and construct a generator storage housing external to the trailer. For these projects, you need to understand how the trailer floor and frame are constructed. The frame is made up of two "I" beams running the length of the trailer spaced about 6 ft. apart with "C" beams welded at each end and 4 ft. apart running across the trailer inside, the "I" beams. The floor is constructed of 2 x 4's across the trailer spaced 16 in. on center and the flooring mounted on them.

The foldaway steps consisted of a three-step unit, 24 inches wide. To mount the steps to the frame underneath the trailer required mounting a 3-foot treated board 2" x 12" attached to the 2" x 4" floor frame with 3/8" x 4" lag bolts. To further strengthen the 2 x 12 board and carry the weight of the steps, two 3/8" x 8" bolts were drilled through the floor. The 2 x 12 and a piece of 1" square steel tubing are attached. The steps were then mounted to the 2 x 12 with three 1/2" x 3" lag bolts on each end of the steps.



The generator storage housing was a little bit more difficult. A 20"x 60" steel cargo carrier (the type that mounts on standard a 2" receiver hitch) was purchased. It came with a 2" x 2" square steel tube 30" long to mount to the standard trailer hitch.



To support the weight of the generator and housing, two 2" x 2" square steel tubes, 6 feet long, were purchased. To the two 2 x 2 square steel tubes were welded a 2" x 2" x 3" angle about 30" from one end. The 2" x 2" square steel tubes were then mounted underneath the trailer about 4 ft. apart and sticking out the end of the trailer. They were welded and bolted to the rear-most cross "C" beam and the second from the end "C" beam to support the weight of the cargo carrier, generator, and housing.

The housing is made of 20 gauge galvanized steel 21" wide, 30" high, and 49" long. It was constructed by Thelen Sheet Metal of Brainerd. The cargo carrier was bolted and welded to the two 2 x 2 steel tubes coming

out the back of the trailer. The sheet metal housing was then bolted to the cargo carrier.

A 1000 lb. boat trailer winch was purchased and mounted outside the housing and to the left of the carrier. A hole was cut in the end of the housing to allow the strap to go through the housing and out the other side.

The ramp consists of a 3/16" steel plate, 20" wide and 3 feet long. It was attached to the base of the cargo carrier with two heavy-duty barn hinges that were bolted and welded to the cargo carrier and ramp. A slot was cut in the ramp and hasp mounted on the sheet metal housing so that when the ramp is raised, the hasp goes through the slot for locking. The housing then completely encloses the generator. There is also room to store both gas cans. **Al Wørc**

Editor's Note: Al is a tireless worker for the BAARC. We thank him for his dedication and a job well done.

Remember Pearl Harbor Day, December 7th. It was in 1941, according to then U. S. President Franklin Delano Roosevelt, "A day that will live in infamy." Armed forces of Japan attacked Pearl Harbor, Hawaii, bringing the United States into World War II. Many thousands of hams signed up to serve in our military. They were an invaluable resource for our country as they were already trained in communications. Ham Radio and the spirit of volunteerism have benefited mankind greatly over the years.



Professor Reginald A. Fessenden was head of the Electrical Engineering Department at Western University, now the University of Pittsburgh. In 1893, he devised the theory of the "continuous wave"--a means to superimpose sound onto a radio wave and transmit this signal to a receiver where the radio wave would be removed, leaving the listener with the original sound.

His first long-range transmissions of voice were on Christmas Eve 1906 from a station at Brant Rock, Massachusetts. Astonished ship radio operators hundreds of miles out in the Atlantic heard the program.

December 27, 1947, Bell Labs invents the transistor.

Brainerd Area Amateur Radio Club

MEMBERSHIP APPLICATION FORM

Dues Year January 1, 2008, to December 31, 2008

Name (First, MI, Last) _____ Call Sign: _____

Street Address: _____ License Class: _____

City: _____ State: _____ ZIP: _____

Phone: (____) _____ - _____ Additional/Cell Phone: (____) _____ - _____

Date of application: _____ Check one: New application: ___ Renewal: ___

E-mail address: _____ Member ARRL? _____

I would like to receive the BAARC'er newsletter via the Internet _____ via the US mail _____

Check one: \$20 Full Membership ___ \$10 Additional Family Member ___ \$10 Student Member ___

Are you interested in being called to do emergency communications? Yes ___ No ___

Membership Dues: \$ _____

Voluntary Contribution: \$ _____

Total Enclosed: \$ _____

Mail to:

Brainerd Area Amateur Radio Club
Treasurer - John Myers W3MQD
34570 Beaver Trail
Pequot Lakes, MN 56472

Make checks payable to BAARC Contributions are tax deductible. The club is a 501C3 non-profit organization.

**Sunday Night Net Control Operators
on the 147.225 MHz+ Repeater at 8 PM:**

12/02/07	Mike	NØGAU
12/09/07	Tom	WBØCZZ
12/16/07	Dick	WØECJ
12/23/07	Pat	WØETY
12/30/07	Jerry	WØXU
1/06/08	Fritz	WØKO
1/13/08	Darrell	ABØVP
1/20/08	John	W3MQD
1/27/08	Shirley	KØDCW

Can't make the schedule? Find a substitute operator. BAARC Sunday Night Net Control Coordinator is Fritz WØKO. Contact him to volunteer.



BAARC, Inc.

Ham Radio at its best in the Lakes Area
Affiliated with the ARRL

Find us on the Web:

<http://www.brainerdham.org>

- - Upcoming Meetings & Activities - -

The Brainerd Area Amateur Radio Club will hold an ARRL VEC testing session for all classes of licenses on Tuesday, December 4th. Testing will be held at the Brainerd Fire Station on Laurel Street on the east bank of the Mississippi River (First and Laurel Streets) starting at 6:30 PM. VEs should be there by 6 PM. Al WØRC will be Volunteer Examiner-Coordinator with John WØJGY assisting. Call Al at 218-575-2404 if you have questions.

The December BAARC Membership Meeting will be two weeks early this year because of Christmas. Gather at 7 PM on Thursday, December 13th, at the Brainerd Fire Station. The address is First and Laurel Streets. Bring Christmas cookies and other goodies to share with the group.

Look for the "Hams' Christmas" poems on the BAARC website at <http://brainerdham.org>

Merry Christmas and Happy New Year to everyone.



United We Stand



FIRST CLASS MAIL
Address Correction Requested

Brainerd Area Amateur Radio Club
c/o M. Fritz Bertelt WØKO
16167 Ahrens Hill Road
Brainerd, MN 56401