



# The BAARCer



November 2015

For Anyone Interested in Amateur Radio

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**Club Call Sign: WØUJ**

**BAARC REPEATERS**

53.110 MHz- 123.0 Hz  
**147.225 MHz+** (main rpt) r  
 145.130 MHz- Echo Link  
 Node number 233515  
 443.925 MHz + 110.9 Hz  
**Packet:** 145.670 MHz  
 MNBRD, BRDBBS  
 144.390 WØUJ APRS  
**Crosslake** 147.030  
 MHz+  
**Crosby** 146.700 MHz-  
 Tone 141.3  
**Crosby** 444.925 MHz +  
<http://brainerdham.org>

**2015 OFFICERS**

**Pres. + Web Editor:**

Steve Mott **NØCRM**

**Vice President:**

Lyle Amundson **KØLFV**

**Secretary:**

Ron Finger **KØGOP**

**Treasurer:**

Doug Bergsnev **KDØERE**

**Director-at-Large:**

Al Doree **WØRC**

**Trustee + BAARCer**

**Editor:**

Fritz Bertelt **WØKO**

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**What is the Internet now and where is it going? They had answers. According to them, it is fast becoming the Internet of Everything.**



**Ty Goeman (I) and Andy Rangen of 7 Sigma Systems, Inc. gave our members insights into what the WWW is developing into. The entertainment industry is a big user—simply because clients love video and it generates big money for corporations. Yes, they sell their services to many firms. There is even a robot-run hospital in Toronto using nanotechnology. Some new technology is even given away for the public good: for example, a 13-year-old created and gave away a Lego-robotic to print out Braille. Also, battery technology is improving: faster charging and smaller sizes. This is useful for all of us with digital devices. Our thanks to these two experts and to Consolidated Telephone Co-op, whose Board Chairman, John Luce, WØWY, arranged this October 29th event.**

**— Events Calendar —**

**Sat., Nov. 7, Club Breakfast @ 9 @ Northwind Grille—Brd.**

**Thurs., Nov 19, Reg. Board and Membership Mtg @ 4 & 7 @ Fire Hall in Brd.**

**NOTE: Because of Thanksgiving, the BAARC Mtg is one week earlier this month**

**Sat., Nov. 21, Club Breakfast @ 9 @ Northwind Grille —Brd.**

**Note: Technology Group Mtg after the BRKFST—to be held at Brd. Lib.**

**Join/Rejoin— \$20 Dues yet for 2016?—See page 7 and please get your check in to Doug KDØERE.**

Bring your Ballot Nov. 19th

## Thursday-October 29, 2015 - 4:00 PM - BAARC Board Meeting Minutes

### Brainerd Fire Station

**President:** Steve Mott, NØCRM

**Vice President:** Lyle Amundson, KØLFV

**Treasurer:** Doug Bergsnev, KDØERE

**Secretary:** Ron Finger, KØGOP

**Attendees:** Steve NØCRM, Ron KØGOP, Al WØRC, John WØWY, Roger WØWUG, and Mitch ADØHJ.

**Secretary's Report:** Membership reminders for 2015 dues were sent out with several paid dues received.

Membership roster shows 70 paid members. CJ WØWUH became our newest Lifetime Member. The Club website was updated for the October meeting presentation and BAARCer. The Club welcomes new member Robert K6RCO, making his new home here from CA.

**Motion to accept:** Al WØRC, **Second** John WØWY, **Passed**.

**Treasurer's Report:** Treasurer's report was delayed until membership meeting in Doug's absence. Noted with great appreciation was Lyle KØLFV's constant efforts in equipment sales for the Club, as well as finding bargains for new Club gear.

**Membership Meeting Program:** Steve NØCRM reviewed recent and future Club programs and events. Future Club programs possibilities include: **Station Grounding by Crow Wing Power's Pat Goff**, **ARRL Division Update**, and **The ARRL**. The **Holiday meeting dates** will be November 19 and December 17.

**Upcoming Events:** Dates were announced for the **Brainerd Jaycees Ice Fishing Extravaganza:** January 23, 2016,

**Mid-MN 150 Sled Dog Race:** February 13th, 2016, and **Brainerd Jaycees Run for the Lakes Marathon:** April 30, 2016. Ron KØGOP reported on a possible Club Activity to add to the Club calendar for June. More information will be gathered for the **Sour Grapes Half & Half Trail Run:** June 11, 2016 and considered by the Board and Membership.

**Digital & Emergency Communications:** John WØWY and Al WØRC had a meeting with the new Brainerd Fire Chief, Timothy Holmes, by way of continuing the good relationship between the Club and the department. John will assume coordination of the Club meeting calendar and the Training Room schedule. The new 146.700 MHz repeater in North Brainerd is online; signal reports are sought at different locations and power levels. John reported that he and Lyle are almost finished with some shelving in the Club area of the new EOC and hope to finish coax and antenna work before winter.

**Proposed:** purchase by Ron KØGOP of 150' of rotor cable for the EOC installation.

**Motion to accept:** Al WØRC, **Second** Steve NØCRM, **Passed**.

**New Business:** The Crow Wing County Sherriff's Office has transferred 4 VHF radios to the Club including 1 portable repeater and 3 base (desktop) units. **Proposed:** John WØWY will bring to Granite City Electronics to reprogram for amateur frequency use (\$75 each; \$300 total). **Motion to accept:** John WØWY, **Second** Al WØRC, **Passed**.

Steve NØCRM has discovered that in addition to our brainerdham.org domain, the Club has also maintained a wouj.org domain. As both are soon coming up for renewal it was decided to drop the unused wouj.org domain and save the \$75 per year fee. The new domain renewal for brainerdham.org will now be linked to the Club account and Gmail address.

Michael KEØAFZ will assist Mitch ADØHJ in purchasing and setting up a VPN for Club repeater control.

**Proposed:** Purchase of another CAT200 interface and CL100 Controller for the Crosby site, not to exceed \$800.

**Motion to accept:** Al WØRC, **Second** John WØWY, **Passed**.

The 50% discounted price of \$500 for the new Yaesu Fusion Repeaters was extended to all registered Club frequency pairs. **Proposed:** Purchase up to 3 more repeaters at the discount price for backup and future site use; not to exceed \$1500.

**Motion to accept:** Al WØRC, **Second** Mitch ADØHJ, **Passed**.

The board meeting was adjourned at 5:10 PM.

## Thursday- October 29, 2015 - 7:00 PM - BAARC Membership Meeting Minutes

### Brainerd Public Library

**Attendees:** The President opened the Club membership business meeting at 7:00 PM with 21 members and guests present.

**Information supplemental to Board Meeting Minutes:** Treasurer's report submitted showing all month's account transactions and balances to date. **Motion to accept:** John WØWY, **Second** TJ KØTEG, **Passed**.

On behalf of the Kiwanis, Marwin Bogue presented a check for \$100 to the Club for the August Triathlon event.

Ron KØGOP gave a summary, and read a thank you letter from the Northland Arboretum for our first "Haunted Trail" event.

Rick NØSEH was presented with a ARRL VEC Coordinator patch in accepting this position for the Club.

Ron KØGOP, TJ KØTEG, and others will work in compiling actual vs. predicted coverage reports on the Club's repeaters along the lines of those reports submitted by Terry KIØFW, noting position, power, and received signal strength.

An informative and entertaining program was presented: "**The Internet of Things**" was presented by Andy Rangen, 7Sigma Systems, Inc.

--Respectfully submitted by **Ron KØGOP**, Secretary

### DX and the Paper Chase

The month of October is on the wane. If anything defined the month from the 1st through the 20th, it would be terrible band conditions. The up-side was the DXpedition QRV from Chesterfield Island (TX3X) with 7 stations operating—if you could hear them. It was tough and it became tougher as the days went on. Never, never give up. Patience is the virtue of getting that rare DX. Everyone is aware that 17meters is not open at 9:30 in the late evening...wrong! I worked TX3X at 9:39PM and the operator had a good signal and I'm in the log. So long from Huntersville for now and remember to sit down at your station and call CQ. Just do it. You'll never know who's out there until you try. 73 es gud DX from Bob/WØZPE.



**Editor's Note:** Pictured here is Bob's DX station. Not just the gear but also the skill of the operator create DX success. Bob has combined both with great skill. Photo provided by Marcia WØZMC when Bob was momentarily out of the shack—  
-GL with more DXing, Bob.

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### FCC GOES PAPERLESS

In order to streamline procedures and save money, the FCC stopped routinely printing and mailing licenses in February 2015. There are a number of ways a license holder can obtain an official FCC copy of their license. Licensees can find complete instructions on our [Obtain License Copy](#) web page.

**“HAUNTED TRAIL” 2015**

By Ron KØGOP

This year marked the first of what promises to be a FUN Halloween tradition for our Club: *The Northland Arboretum's "Haunted Trail"*. This annual community fundraiser completed its 12th year, and drew 3000 visitors over the chilly evenings of October 15th and 16th. Club operators provided communications from 10 stations of performers along the winding 1-mile wooded Arboretum trail, greatly enhancing event safety and awareness. Net control was operated from the visitor center, with HTs using simplex from the trail. Everyone seemed to have had a great time in the torch-lit woods and ponds, and we were VERY much appreciated by the Arboretum staff. We and the other volunteers were also treated to a hot meal each night before the 7PM start. Fire tending was a pleasant task for those operators near the many fire rings in the after-dark hours until 9PM. One particularly pleasant aspect of this fall outdoor event was the total absence of mosquitoes!

A big thank you to our participating operators for this year: Charles W5CCL, Mitch ADØHJ, TJ KØTEG, John WØWY, Tim KDØYLO, Rick NØSEH, Terry KIØFW, and Alan AAØAS. **Photos thanks to Ron Finger, KØGOP.**



**Haunted Trail 15 Oct. 2015:** Thursday crew (L-R): TJ KØTEG, Alan AAØAS, Ron KØGOP, Charles W5CCL, Terry KIØFW, Tim KDØYLO, John WØWY, and Mitch ADØHJ.



**Haunted Trail 16 Oct. 2015:** Friday Crew (L-R back ) Rick NSEH, Charles W5CCL, Mitch ADØHJ, John WØWY, Tim KDØYLO; front (L-R) Ron KØGOP, TJ KØTEG.

## **ARLB030: ARRL Asks FCC to Clarify that Hams May Modify Non-Amateur Gear for Amateur Use**

The ARRL has asked the FCC to make clear that Amateur Radio licensees may modify non-amateur equipment for use on Amateur Radio frequencies. Some hams have expressed concerns that recently proposed rules would inhibit post-sale modification of Wi-Fi equipment, now sometimes altered for use on Amateur Radio frequencies. The ARRL made its point in comments filed on October 8 on a Notice of Proposed Rule Making (NPRM) in ET Docket 15-170 and RM-11673. The proceeding mostly addresses proposed amendments to FCC rules regarding authorization of RF equipment. The NPRM can be found on the web in PDF format at, [https://apps.fcc.gov/edocs\\_public/attachmatch/FCC-15-92A1.pdf](https://apps.fcc.gov/edocs_public/attachmatch/FCC-15-92A1.pdf).

### **FOR SALE:**

**Davis Weather Station 2. Everything EXCEPT rain guage included.**

[http://www.davisnet.com/product\\_documents/weather/manuals/monitor\\_ii\\_manual.pdf](http://www.davisnet.com/product_documents/weather/manuals/monitor_ii_manual.pdf)

It's old but reliable and cheap. \$50.00. Charles, [W5CCL@yahoo.com](mailto:W5CCL@yahoo.com) or 218-866-0250.

\*\*\*\*\*  
**Icom 756 Pro II: Excellent condition with power supply, mic, manual. Have always gotten outstanding audio reports with it—even though the rig was primarily used for CW. Rig has bandscope/spectrum scope and no filters to buy—it was recently completely checked over by professional, Gary KØGX. Plus, Fritz will guarantee it to local buyer. Reason for selling: He bought a new Icom 7600 as a post-retirement present. Test the IC 756 Pro II—very similar.—E-mail Fritz [w0ko@arrrl.net](mailto:w0ko@arrrl.net) or talk to him in person.**

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**Welcome, our latest Club Member: Robert C. Oden, K6RCO, an Advanced Class Licensee. Bob recently moved from California and is settling in the Lakes Area. Bob, we are glad to have you among us and hope you will find our variety of Club activities interesting enough to get involved in.**



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**K7RA—Solar Info—from ARRL Letter.**

Predicted solar flux is 110 on October 30, 105 on October 31 and November 1, 100 on November 2, 95 on November 3-4, 90 on November 5, 85 on November 6-8, 90 on November 9, 95 on November 10-11, then 100, 105 and 110 on November 12-14, 115 on November 15-16, then 120, 115 and 110 on November 17-19, and 105 on November 20-24. Flux values then drop to 85 on November 30 through December 5, and next rise above 100 a few days later.

# Brainerd Area Amateur Radio Club

## Official Ballot for the Election of Officers for the Year 2016

Circle the Choices or Write In a Name

President: Steve Mott, NØCRM

Write-In: \_\_\_\_\_

Vice-President: Lyle Amundson, KØLFV

Write-In: \_\_\_\_\_

Treasurer: Doug Bergsnev, KDØERE

Write-In: \_\_\_\_\_

Secretary: Ron Finger, KØGOP

Write-In: \_\_\_\_\_

Director-at-Large: Al Doree, WØRC

Write-In: \_\_\_\_\_

**Voting Directions: Bring a printed copy of the ballot to the Meeting on Nov. 19th or mail it to the Secretary to arrive on or before meeting that day. If you write in anyone's name, please check with that member beforehand. In the past when we have had no opposition candidates for next year's offices, the membership present votes to approve a unanimous ballot. The BAARC's Secretary's mailing address is Ron Finger, 14092 Memorywood Drive, Baxter, MN 56425-1009. P.S. You can also mail or bring your 1016 dues. Again we thank these candidates for putting their names in nomination. Please also give them support throught the term with the Club's many activities.**



# Brainerd Area Amateur Radio Club

## MEMBERSHIP APPLICATION FORM

Dues Year January 1, 2016, to December 31, 2016

(One Application for Each Person)



Name: (First, MI, Last) \_\_\_\_\_ Call Sign: \_\_\_\_\_

Address: \_\_\_\_\_ License Class: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Phone: (\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_ Additional Phone: (\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_

Date of Application: \_\_\_\_\_ Circle One: New / Renewal

E-mail Address: \_\_\_\_\_ Member ARRL ? Circle One: Y / N

The official Club newsletter, The BAARCer is available each month online at [www.brainerdham.org/baarcer](http://www.brainerdham.org/baarcer).

Select One:  \$20 Full Member /  \$10 Additional Family Member /  \$10 Student Member

**Note:** For first-time members, pay \$5 per quarter for the time remaining in the year you join. For information on a life membership, contact Doug, Club treasurer: [djbdesk@gmail.com](mailto:djbdesk@gmail.com)

Membership Dues \$ \_\_\_\_\_

Voluntary Contribution \$ \_\_\_\_\_

Total Enclosed \$ \_\_\_\_\_

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

Mail to:

Brainerd Area Amateur Radio Club  
Treasurer - Doug Bergsnev KDØERE  
15912 Olsen Lane  
Brainerd, MN 56401

I hereby make this application and agree to abide by the Club By-Laws.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Disclosure:** This information will not be sold or given to another organization without express permission of the BAARC members.

Please mail one form, along with dues (check/money order), for each person who wants to be a member.

**Check our Club's Website for other Information and Newsletters.**  
Regular Updates on the Sunday Night Nets on 147.225  
[www.brainerdham.org](http://www.brainerdham.org)

**SUNDAY NIGHT NCS OPS**

11-01-15	Rick	NØBJN
11-08-15	Dave	KCØTGT
11-15-15	TJ	KØTEG
11-22-15	Tim	KDØYLO
11-29-15	Tim	KDØYLO
12-06-15	Rick	NØBJN
12-13-15	Doug	KDØERE
12-20-15	Dave	KCØTGT
12-27-15	TJ	KØTEG

Can't make the schedule? Find a substitute operator. BAARC Sunday Night Net Control Coordinator is Fritz WØKO. To volunteer: w0ko "at" arrl.net

**Would you like to take a turn at NCS?**

**Thanks to Stan K3JKW:** Stan recently donated a B&W Triband Dipole to the BAARC—perhaps to be used as our planned remote base station antenna. Also you may not know, but Stan is going through a long series of radiation treatments on a tumor—remnant of his earlier battle. He says the oncologist was pleased with the shrinkage so far. Keep him in your prayers. He told Fritz that he will rejoin our gatherings when he is stronger.

**Happy Veterans' Day:** Nov. 11th is the day we honor the tremendous contributions our military men and women have made in service to this great country—the USA. **THANK YOU, VETERANS.** BAARC members, try to a make point of personally thanking a veteran whenever you meet. Each one will appreciate the recognition.

**Thanks, Lyle KØLFV:** He has helped enrich our treasury --again--by recently selling the Club's Kenwood amplifier.

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