



The BAARCeR



June 2016

For Anyone Interested in Amateur Radio

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Club Call Sign: WØUJ

BAARC REPEATERS

53.110 MHz- 123.0 Hz

Main Repeater in Crosby

147.225 MHz+ Crosby

Tone 110.9 Tx only

~~~~~  
146.700 MHz-

Tone 141.3 Hz

~~~~~  
145.130 MHz– Echo

Link-Node Nr. 233515

AllStar Node 42508

~~~~~  
147.030 MHz+ Crosslake

~~~~~  
443.925 MHz Gull Lake+

Tone 110.9 Hz

~~~~~  
444.925 MHz Crosby

~~~~~  
Packet: 145.670 MHz

MNBRD, BRDBBS

144.390 MHz WØUJ

APRS I-Gate Node

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**Officers for the Year  
are listed by name  
and title on Page 2—  
top of the Minutes —  
each month.**

**Ralph Fedor, KØIR**, made another informative presentation to BAARC members at the May 26th Annual Dinner-Meeting held at the Nisswa American Legion. His focus was on how humans can survive extreme conditions found in some the most hostile areas he and his DXpeditioners have operated from. From a physician's and scientific



perspective, he has learned a lot, which he shared with fellow hams. A few complex gleanings—three systems in the brain: the cerebral cortex, limbic, and brain stem frequently work in opposition to each other. Reason fights emotion, but often if man lets the brain go with gut reactions, follows instinct, he can survive. See pages 2 and 5 for more.

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### — Events Calendar —

**Sat., June 4, Club Breakfast @ 9 @ Northwind Grille—Brd.**

**Sat., June 4, Tour-of-the-Lakes—Biking Event @ Pequot Lakes—contact TJ KØTEG—ops needed.**

**Sat., June 18, Club Breakfast @ 9 @ Northwind Grille in Brd.**

**ANNUAL ARRL FIELD DAY—BAARC will participate again June 25-26. Details here p. 6, in the press releases, and on our nets.**

**Thurs.. June 30, Board Mtg @4 and General Membership Mtg @ 7 P.M. \*\*\*Program with the Kendalls KH6OO Ham Team on T32DX\*\*\*\***

**UPCOMING: Our free tailgate event at the fairgrounds on Aug. 27..... See p. 3.**

**Because there was no formal meeting of the BAARC, we are using this space for the rest of the happenings. Program from Ralph continues from p.1.**

On the subject of survival, hams in their 60's are generally more likely to die on an expedition than by being at home. Who would have the best chance of surviving? Children 6 and under, but they would not be on a DXpedition. At that young age they would rely more on instinct than reason (saving their strength). In addition, they probably would not panic—which would help save them. Unfortunately, we adults have our brains working against us.

For more reading on survival, we can study Shackleton's expeditions and how disciplined his team was—especially having faith in the leader that he would return for his men who endured harsh climates.

Also Jack London's writings—dating to 1908, give more examples of survival which most of us could not imagine. In short, your editor can barely make a dent into the profound content of KØIR's lessons from his professional experience tied to the practical—all gained from his many trips for ham radio around the world. **Special thanks to Ralph for the work that has gone into such a presentation. Obviously he is always well researched and thus informative—presenting his material in a challenging manner.**

**We had a good turnout at the dinner. The conversations were animated. Our thanks to Jim Shubert, WØJDS, who arranged for the event with the Legion, to Doug WØDWB, our treasurer, who handled the money, and to the BAARC's technical crew, who helped Ralph set up the screen, projector, and PA system.**

By the way, the buffet dinner was tasty and reasonably priced—all done under new catering management, we were told. Again our thanks to all who made it possible.

Some of the attendees caught by the camera.



## DX and the Paper Chase

The good, the bad and the ugly. That's how I'd characterize the past 45 days on HF, especially DX. Under the good we had "several" fair to good openings into Europe mostly in the morning hours. Also under good the paper chase produced a QSL card from my contact to So. Georgia Island (VP8). Under good openings I'd add 20 meters, the band I love to hate...too many nets and too many sharp elbows. Under the bad was terrible conditions on 17 meters across the entire spectrum. All the CQ calling fell on deaf ears. There was very little activity in the CW portion of the band. The ugly was ugly. Deliberate QRM finally gave me enough angst to give up on working the Iran DXpedition. In all fairness I must add that conditions were a factor; they were poor. One thing I'd insert here is when working a DXpedition, do not operate your transmit on simplex. DXpedition operators operate a split VFO, always! If you're operating simplex, your transmit signal is on the DX operators' calling frequency...it's a good way to start a war. We all need to be reminded of this. This is a fantastic hobby; let's all operate by the rules. Sit down at your station and call CQ because someone somewhere is listening for your signal...so long from Huntersville for now. Best 73 es gud dx————Bob/WØZPE

Wikipedia Info on Solar Cycle 24: Apparently we are in the last three years of the 11-year average. Based on current conditions, don't be discouraged from operating; excellent opportunities come and go—like Bob WØZPE often says in his columns: keep trying—don't just listen.—Ed. Comment—WØKO

## Upcoming Event Open Free to Club and non-Club Members:

**BRAINERD TAILGATE HAMFEST: SATURDAY, AUGUST 27, 2016, FROM 9AM TO 1PM.** Where: Crow Wing County Fairgrounds North—same as last year's and within sight of where our Hamfest is every year. Address is 2000 13th St., SE.—Pass the word.

## **BAARC May Activities Report**

### BAARC Members Attend Annual SKYWARN Training/Refresher Class

“There were over 100 folks attending tonight,” said John Bowen, KDØCIZ, Emergency Management Director, Crow Wing County, who sponsored the severe weather training course put on by the National Weather Service (NWS), Thursday evening, April 28<sup>th</sup>.

John said he was glad to see so many people interested in learning how to be severe weather spotters, and those who were there to refresh their skills. These included about 20 Brainerd Area Amateur Radio Club members.

Again this year, as in previous years, the training was led by Carol Christenson, KCØMAK, Senior Warning Specialist, NWS, Duluth, who had some new updated videos showing what spotters should look for and how to give reports to the WEATHER SERVICE. She passed along plenty of compliments to members of our club for their reporting during the storm on July 12<sup>th</sup> last summer.

John Luce, WØWY, the Club’s Emergency Coordinator, also gave a brief explanation of what BAARC SKYWARN hams do during severe weather events including the use of APRS. He explained that operators at KØNWS in Duluth know our exact reporting points when APRS is used, thereby greatly simplifying location identification. He also handed out the Club’s 2016 SKYWARN protocol cards to hams in the audience that had not received them at club meetings.

Again, we were reminded that because the NWS weather radar is line-of-sight and comes from Duluth, Grand Forks, Sioux Falls and Chanhassen, that there is a radar signal void over our area, from the ground up to about 8,000-ft. This means that storm spotting/reporting is very important so that the NWS folks get an accurate “picture” of what’s happening.— **submitted by WØWY**

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### **Report on the Fly-in at Breezy Point:**

Well , our club did a wonderful job today serving the people operating the airport and the fly-in. More than 500 folks showed up, and more than 45 planes made it there in spite of less than ideal wind conditions.

**Thank you to TJ KØTEG for doing a good job in organization, operating, and providing good Club PR with everyone he came in contact with. Thanks to the BAARC participants.**

Our BAARC operators provided the following: runway crossing protection for pedestrians; communications liaison from the air controller on **Unicom** to the ham operators; net control; shadow for airport officials; communications liaison from CAP to ham operators; provided transportation around the airport for ham operators (to eliminate long walks); and flight line monitoring during air operation. We were on-duty from 0730 to 1530.

Airport manager Cliff Muller and airport board member Tom Moroni personally welcomed at the morning safety briefing all of our hams and thanked us when we finished the day. Their comments were echoed by John Bowen and Lt. Scott Goddard, who were very happy about the day’s activity and welcomed the club’s use of their communications trailer and its radios.

—**by WØWY**

More from the dinner event.



## **FIELD DAY 2016 –Amateur Radio’s Event of the Year**

**The Annual Field Day 2016 will be held Saturday, June 25<sup>th</sup>, at the Crow Wing County Fairgrounds. At that time the Public and Media can visit in the afternoon. It is free. Club Members and other Participants: Set-up usually starts on Friday, 24<sup>th</sup> and takedown is Sunday, the 26<sup>th</sup>.**

It is the single most popular on-the-air event held annually in the US and Canada. Each year nearly 40,000 amateurs gather with their clubs, friends or simply by themselves. According to local Brainerd Area Amateur Radio Club’s Vice President Lyle Amundson, **“It is a time where many aspects of Amateur Radio come together to highlight our many roles. While some will treat it as a contest, most groups use the opportunity to practice their emergency response capabilities. It is an excellent opportunity for us to demonstrate Amateur Radio to local elected community leaders, key individuals with the organizations that Amateur Radio might serve in an emergency, as well as the general public. For us , ARRL Field Day is one of the highlights of the annual calendar.”**

For the operators, the objective is to make radio contact with as many stations as possible on any and all amateur bands (excluding the 60, 30, 17, and 12-meter bands) and to learn to operate in abnormal situations in less than optimal conditions. Field Day is open to all amateurs in the USA and Canada. Often many foreign stations participate.

To find the location--**F/D Station Locator** - <http://www.arrl.org/field-day-locator> . Just type in our Club Call Sign **WØUJ** and a Google map of our F/D location will come up. Also click on the red pin that appears on the map for additional information.

**Again, the BAARC invites members of the public and media to come Saturday afternoon.**

**For more information, contact Vice President and BAARC Field Day Coordinator, Lyle Amundson, KØLFV: cell 218.330.5110 or home 218.765.3100 or e-mail [k0lfv@arrl.net](mailto:k0lfv@arrl.net).**

**A Press Release will go out to the usual media in the area.—Watch for it. Watch for/listen for an e-mail reminder and announcements on the Sunday night net.**

## OTH Radars, Fishery and Taxi Traffic, Buoys, and Broadcasters Continue to Mar Ham Bands

The International Amateur Radio Union Region 1 Monitoring System (IARUMS) [April newsletter](#) chronicles a plethora of intruding signals heard on exclusive Amateur Radio allocations in Europe and Africa, many of these also affecting the bands in IARU Regions 1 and 3. The most significant interfering signals originate from over-the-horizon (OTH) radars in China and Russia and affect 40, 30, 20, and 15 meters.

The newsletter also recounts monitoring stations' reports of voice traffic on several bands from fishing operations in various parts of the world, telemetry from marine buoys, and persistent taxi dispatching traffic from Russia on 10 meters. Other interference has stemmed from broadcasters -- harmonic-challenged and otherwise -- as well as from jamming signals attempting to prevent broadcasts from reaching their intended audiences. Pirate (ie, unlicensed) stations have been reported on 80 meters and elsewhere, and Russian digital military traffic has been monitored on 40 and 20 meters.

OTH radar interference prevails, however. IARUMS Region 1 Coordinator Wolf Hadel, DK2OM, documented a Chinese OTH radar occupying considerable swaths of spectrum on several bands.

IARU Region 1 maintains the world's most active network of volunteer intruder monitors.—*from ARRL*

## Former Alpha/Power President, Researcher Brosnahan, WØUN, SK

Former Alpha/Power President and Technical Director John Brosnahan, WØUN, of Vanderpool, Texas, died on May 4 after suffering an apparent stroke. He was 71 and an ARRL Life Member.

"John was a great family man, a first-rate contester, a DXer, builder, problem solver, businessman, and a help to all who knew him," said Alan Applegate, KØBG, his friend of many years. "He was also one of the most personable people I have ever known."

An active contester, Brosnahan was a contributor to *National Contest Journal (NCJ)* and to the *ARRL Contest Update*, as well as to various technical forums. He stepped down from Alpha/Power in 2000 citing a combination of health issues and family obligations.

Brosnahan, who relocated from Colorado to Texas about 10 years ago, was a research physicist and developer of atmospheric remote-sensing tools for clients such as the National Oceanographic and Atmospheric Administration (NOAA). Applegate said Brosnahan did a lot of the equipment design and installation for the High Frequency Active Auroral Research Program (HAARP) ionospheric research facility in Alaska.

Brosnahan founded Signal Hill Research, Tycho Technologies, and LaSalle Research. He contributed technical papers to such journals as *Radio Science*.—*from ARRL*

### **Note from Mitch ADØHJ—Recent Work by the Technical Group of BAARC —thanks, Guys!!!!**

EchoLink / AllStar was moved to the Crow Wing Power and Crosslake repeaters this week.

Crow Wing Power: 146.700 MHz - Offset Tone 141.3 Hz

Crosslake: 147.030 MHz + Offset Tone 141.3 Hz

Digital Amateur Radio Club Net: Sat Night @ 8:00 PM

Morrison County ARES Net: Sat Night @ 9:15 PM

Lake Superior Weather Net (LSAC): Sun Night @ 7:30 PM

Amateur Radio Newline: Sun Night @ 8:30 PM

Hawaii AllStar Net: Sun Night @ 9:00 PM

**The group doing this work this week were Mitch ADØHJ, Roger WØWUG, Michael KEØAFZ, and Al WØRC.**

**Update from Mitch: 145.130 rpt. will require a 141.3 Hz tone—No EchoLink/AllStar use for a few months.**



John Brosnahan, WØUN.

**SUNDAY NIGHT NCS OPS**

|          |       |        |
|----------|-------|--------|
| 06-05-16 | Rick  | NØBJN  |
| 06-12-16 | Doug  | WØDWB  |
| 06-19-16 | TJ    | KØTEG  |
| 06-26-16 | Tim   | KDØYLO |
|          |       |        |
| 07-03-16 | Rick  | NØBJN  |
| 07-10-16 | Doug  | WØDWB  |
| 07-17-16 | TJ    | KØTEG  |
| 07-24-16 | Fritz | WØKO   |
| 07-31-16 | Tim   | KDØYLO |

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?**

**Annual ARRL/BAARC Field Day event to be held on June 25-26th. The first day Fri. is for set-up; operations are on the second day Sat. Then Sunday afternoon is for the dismantling. In the afternoon on Saturday, the public and media are invited to the Crow Wing County Fairgrounds for these demonstrations—all free. See p. 6.**

**Congrats to our Treasurer Doug: He now is WØDWB instead of the longer call sign KDØERE. Fortunately he got his initials also with this change.**

**Program for JULY Mtg. Skip Jackson, KSØJ, and Frank Karnauskas, N1UW, will present a program on all the good things the ARRL does for us hams.**

**United We Stand**



**First Class Mail**  
Address Correction Requested

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