



The BAARCeR



October 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

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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

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444.925 MHz Crosby

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Packet: 145.010 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.**

**Bob Oden, K6RCO, retired from California Search and Rescue Sheriffs Communications, presented an informative program to BAARC members 9-29-16. Now living in Rural Brainerd, he puts his vast experience gained in the West to us in the Midwest.**



After working some 45 years in some kind of police work—with 27 of those years as a railroad policeman—Bob at 81 years of age is very much still active. Yes, he volunteers these days in retirement for BAARC events. Butte County Sheriffs Communications claimed much of his time before he moved with his wife to MN. In his presentation he stated that emergency services in CA are, of course, augmented by ham operators as they are in MN. Many public service law enforcement operations also have communications vehicles. In CA, some of their work may be different—like searches for lost persons. Here we have them too, but as MN hams know, the bulk of the critical communications work is related to WX emergencies or preparations for them. The skills provided by amateur radio operators in CA and here are nearly the same. Thanks for the presentation, Bob. We are glad you moved east to put your skills to work for us in MN.

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of the BAARCeR**

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**— Events Calendar —**

**Sat., Oct. 1, Club Breakfast @ 9 @ Northwind Grille—Brd.**

**Sat., Oct. 15, Club Breakfast @ 9 @ Northwind Grille —Brd.**

**Northland's Haunted Trail Event at the Brained Arboretum—Oct. 20 (Thurs.) & Oct. 21 (Fri.) from 6:30 to 9:00 PM. Help needed—contact Ron KØGOP.**

**Thurs., October 27- Regular Monthly Board & BAARC membership Mtgs. @ 4 and 7 P.M. @ Brd. Fire Hall.**

## Thursday—September 28, 2016 - 4:00 PM - BAARC Board Meeting Minutes

### Brainerd Police Station (change from Fire Hall)

**President:** Steve Mott, NØCRM

**Past Presidents:** Charles Lane, W5CCL; Al Doree WØRC

**Vice President:** Lyle Amundson, KØLFV

**Director-At-Large:** Al Doree, WØRC

**Treasurer:** Doug Bergsnev, WØDWB

**Repeater Trustee:** Fritz Bertelt, WØKO

**Secretary:** Ron Finger, KØGOP

**Director of Emergency Communications:** John Luce, WØWY

**Community & Special Events Coordinator:** TJ Graves, KØTEG

**Attendees:** Steve NØCRM, Lyle KØLFV, Doug WØDWB, Ron KØGOP, Al WØRC, John WØWY, Shirley KØDCW, Mitch ADØHJ, Terry KIØFW, TJ Graves KØTEG, and Roger WØWUG.

The President opened the Board Meeting at 4:05 PM.

**Secretary's Report:** Membership roster shows 90 paid members for July 2016. The September BAARcer was published to the website and the Club website will be updated for the October 20-21 Haunted Trail event pending member support. Other activities included repainting signs for the August 27 Tailgate Hamfest, and updating of the Club Gmail contact list.

**Motion to accept:** Lyle KØLFV, **Second** Al WØRC, **Passed.**

**Treasurer's Report:** Treasurer's report submitted showing all month's account transactions and balances to date.

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

**Membership Meeting Program:** Steve NØCRM reviewed recent and future Club programs and events. Future Club programs include: **The Search for Amelia Earhart** – October 27 with Kenton Spading. A program on MN-DMR talkgroups was also discussed. The November and December membership meetings will be held a week early due to the Thanksgiving and Christmas holidays. Meeting dates will be November 17 and December 15.

**Upcoming Events:** **Northland's "Haunted Trail"** Thursday, Oct 20 – Friday Oct 21, 6:30 PM - 9 PM. There is a need for communications along the 1/2-mile trail and its 9 stations staffed by local groups of performers. Contact Ron KØGOP if interested in this second annual event, the last of the year.

**Digital & Emergency Communications:** Al WØRC gave a report on developments at the **Gull Lake repeater site**.

The site currently hosts the 443.925 MHz repeater with future possibilities to include a 2-meter capability as well.

Discussions are ongoing as to a possible move from the older auxiliary control building to the main building that would include Internet access for repeater linking and control. Al will continue to represent the Club in these discussions. John WØWY reported on the changing management of the top floor equipment space at the **Brainerd high rise's 145.130 MHz repeater site**. John suggested that we complete any Club antenna work on the rooftop and equipment areas before the new management company assumes control. TJ KØTEG reported that he has been successful in securing access to the 2-meter radio at the CRMC in Crosby, for checking into the monthly **Central MN Hospital Nets**.

**New Business:** John WØWY completed **forms for the Club use of Brainerd city facilities**, such as the October meetings police station location. He gave the Secretary paper copies for the Club files and will furnish PDF's as well for electronic storage. Lyle KØLFV has investigated the possibility of purchasing a **Club storage container** for the many Club items currently dispersed among members' residences. Three possible options were discussed for the container location: the Brainerd Fire Department fenced area, and the County Highway Department Laurel Street and airport locations. Lyle will pursue further information. Ron KØGOP and TJ KØTEG reported that the Club inventory of Motorola HT's need **radio programming updates** on at least 2 repeater CTCSS receive tones. Roger WØWUG will contact Dan KØTI to see if he wants to do this again for the Club. Other options include acquiring the programming software and cables, or having Granite City Electronics do it. John WØWY will get an estimate from Granite City. TJ also reported on the need to acquire additional **Club vests** for use during events. The extra "loaner" supply from the Club trailer has disappeared over the years since our initial order. TJ contacted Minnesota T's, who still have the original art files for pricing. Depending on the quantity ordered, a durable yellow mesh reflective vest can be ordered for around \$20. The back has a 2-color "BAARC RADIO COMMUNICATIONS" design, with the pocketed front providing space for a call sign tag or Club patch. A sign-up request sheet was started at the October membership meeting; **contact TJ with your order**. The board meeting was adjourned at 5:17 PM.

## Thursday-September 28, 2016 - 7:00 PM - BAARC Membership Meeting Minutes

### Brainerd Police Station

The President opened the Club membership business meeting at 7:10 PM with 23 members and guests present. Bob Oden K6RCO gave an informative presentation on his activities with the **Butte County Sherriff's Communications Unit** at his former California QTH. Mitch ADØHJ gave a clear and concise report on how our many of our **Club repeaters** are interconnected and controlled through the Internet.

## DX and the Paper Chase

Another month has gone by as we move ever closer to the fall season. I hear a lot of complaints about the poor band conditions and the lack of available DX. True, band conditions are not great but there is good DX out there if you're serious about DXing. I use whatever resources are available for spotting worldwide DX on the Internet. My favorite is DXscape, which is a Japanese-based Internet website. WM7D has a website dedicated to propagation issues (WM7D.net), which will give you the index values as well as the number of sunspots along with a host of other "stuff" that's way too complicated for me. Pure and simple, I'm a radio operator not a scientist. Speaking of operating and DX, Central Europe has been booming in on 17 meters the past several days. I recently purchased a tiny keyer/oscillator combo from Morse Express for practicing and sending CW. Yes...I do have CW practice capabilities with both of my rigs, but there are times I like to practice sending from my favorite chair. Remember way back when the FCC did away with CW as a requirement for licensing and most of us smiled?? Well, we didn't know at that time that we were going to miss one of the most fun parts of the hobby. For the naysayers out there—I was 81 years old when I made my very first DX contact with CW and a straight key to work Niue Island. I was hooked big time. So long from my station in Huntersville to yours and don't forget to sit down at your station and call CQ because someone somewhere is listening for your call. Best 73 es gud DX from Bob/WØZPE



**Side Presentations  
from Thursday's  
Meeting:**

On the left is Mitch ADØHJ, an able member of the our Technical Committee, making a presentation with a video graphic showing our BAARC repeaters' status. We are always improving them as we can. See p. 5 for some of the details.

Below is Nick KØNJR

In another brief show-and-tell, Nick Reed, KØNJR, showed his creativity with a go-box, built in such a way to allow for easy power access in the "field." It could house a battery for emergency communications, etc. Thanks to both Mitch and Nick for their presentations.



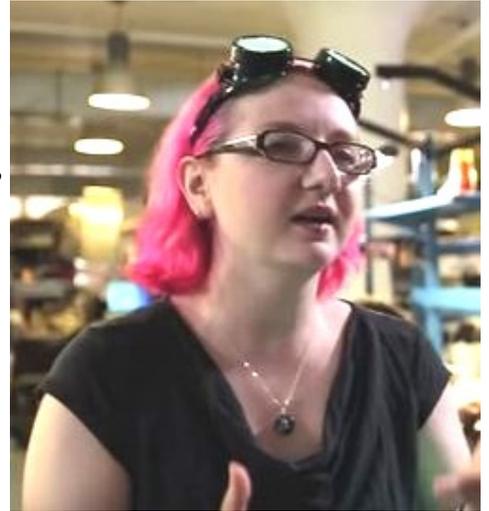
## **Limor Fried, AC2SN, Named Among Most Influential Women in Internet of Things Industry**

The Internet of Things (IoT) Institute has named ARRL member Limor Fried, AC2SN, of New York City as one of the 25 most influential women in the IoT industry. IoT embraces the concept of connecting devices from cell phones to appliances and machine components to the Internet and/or to each other. Individuals were named on the basis of attainment of leadership roles related to IoT, hands-on experience developing IoT technology, outstanding research related to IoT, and social reach, among other factors.

Limor Fried, ( shown on right) AC2SN, during a tour of her factory in 2015.

Fried founded the open-source hardware firm Adafruit from her MIT dorm room in 2005. The Manhattan-based company, which now employs more than 50 people, offers tools, equipment, and electronic components targeted at the "maker" audience, including IoT technology.

In June, Fried was designated as a White House Champion of Change. As Adafruit's sole owner, Fried has become known for creating resources for and supporting the learning of electronics for makers of all ages and skill levels.—from *ARRL Letter*



## **Mitch's Tech Report—Updates given at the Meeting 9-29-30**

Al WØRC, Lyle KØLFV, and Mitch ADØHJ swapped the existing UHF 443.925(+) Motorola repeater at Crosby (sorry I do not know the model) with a Yaesu DR-1X Fusion Repeater, HRI-200 WIRES-X Interface, and Windows 10 PC on 05/2716. This repeater can be accessed with either a Yaesu Fusion C4FM digital or an analog FM radio. It is usually connected to the WIRES-X Room #21493 (MNWIS-FUSION) which hosts a BARS (Bakken Amateur Radio Society) Fusion Net on Monday nights at 7:30 PM CST. Visit <http://www.hamoperator.com> for more information on the MNWIS-FUSION room, BARS Fusion Net, or technical assistance with Yaesu Fusion radios.

Unfortunately the WIRES-X connectivity of this repeater has not been operational for the last couple months because the computer shut off on its own and someone needs to turn it back on. Please let me know if you have any more questions on this update. I also attached a photo of the 147.225 MHz and 443.925 MHz repeaters located at Crosby.

—73, Mitch ADØHJ

Editor's Note: TNX, Mitch, for providing this info, text, and photo. Our thanks, of course, also to the tech team listed above for their work for the Club.



**Space Ham: One Radio Amateur Among Expedition 49/50 Crew Members Headed to ISS:**

Three Expedition 49/50 crew members will head to the International Space Station on Friday, September 23. Astronaut Shane Kimbrough, KE5HOD, and cosmonauts Sergey Ryzhikov and Andrey Borisenko will head into space from the Baikonur Cosmodrome in Kazakhstan. They will spend approximately 5 months aboard the orbital complex before returning to Earth in late February. Kimbrough, Ryzhikov, and Borisenko will join Expedition 49 Commander Anatoly Ivanishin and his crewmates -- Kate Rubins, KG5FYJ, and Takuya Onishi, KF5LKS, who have been on station since July. Between launch and docking, the trio will spend 2 days in the Soyuz MS-02, testing system upgrades. NASA TV will provide live coverage of the launch and docking.—*from ARRL Letter*

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**Amateur Radio-Military Interoperability Exercise Set for October 31-November 1: An**

Amateur Radio-military interoperability exercise will take place October 31-November 1. The event will begin at 1200 UTC on October 31 and continue through 2359 UTC on November 1 on 60 meter channels 1-4 --5.3305 MHz, 5.3465 MHz, 5.357 MHz, and 5.3715 MHz, respectively. During this exercise, military stations will attempt to make radio contact with stations in as many of the 3077 US counties as possible. Radio amateurs providing "county status" information will receive a US Department of Defense "interoperability QSL card." For more information, contact the Military Auxiliary Radio Service (MARS).—*from ARRL Letter*

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**World War II Norwegian Resistance Member Haakon Sørbye, LA8Y, SK**

World War II Norwegian resistance activist Haakon Sørbye, LA8Y, of Trondheim, Norway, died on September 15. He was 96. In 1939, the year after World War II erupted in Europe, Sørbye, then an engineering student and young radio amateur, first enlisted as a telegrapher in the Norwegian military.

After Norway surrendered to the Nazis, he joined the Norwegian resistance and became part of the "Skylark B" group -- one of two radio communication teams that relayed to London information on the movement of German troops and supplies. The mostly student Skylark B team also alerted London when the Germans captured the world's first plant to mass-produce heavy water -- a building block for the atomic bomb.

Most Skylark B members eventually were arrested by the Nazis, and seven of them died in extermination camps. Sørbye survived, however, and was rescued by the "White Buses" -- an operation carried out by Swedish Red Cross members in early 1945 that saved more than 15,000 concentration camp survivors.

Following the war, Sørbye returned to school, eventually becoming a professor of telematics at the Norwegian Institute of Technology. In addition to the Defence Medal awarded to military and civilian personnel who took part in fighting the German invasion and occupation of Norway, he was decorated with the King's Medal for Courage in the Cause of Freedom.

-- Thanks to Pete Varounis, NL7XM—*via ARRL Letter*

**MN Section News:** (6/30/2016 Skip Jackson) - Minnesota ARES Coordinator Transfer of Duties  
Joe Reinemann, KØJCR, New Minnesota Section ARES Coordinator



Joe Reinemann, KØJCR, (left) accepted the duties of Minnesota Section Emergency Coordinator from Dan Anderson, KDØASX, June 30 in Jordan, MN. Anderson will stay on in an advisory role to the new SEC, will help with transition process with the website, and will take on special projects.

More details can be found on the Minnesota ARES Site <http://www.minnesotaares.org>

From Skip Jackson, KSØJ ARRL MN Section Manager

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**INFO on Amateur Radio Parity ACT**—from SM Skip Jackson, KSØJ

We have all heard of the Amateur Radio Parity Act since we have been talking about it now for two years. We have scored a partial victory with its passage in the House but now it goes before the Senate known as “The Amateur Radio Parity Act, H.R. 1301”. Senate passage is required to finish the job.

You may have recently received emails from HQ and from Directors and other field operatives asking for your support. I am also asking for you to spend a few minutes and send an email to your senators by using the facility developed by ARRL HQ. Follow this link and follow the simple instructions. It should take no longer than 5 minutes. It took me 2 minutes.

<https://arri.rallycongress.net/ctas/urge-senate-to-support-amateur-radio-parity-act>

**SUNDAY NIGHT NCS OPS**

|          |      |        |
|----------|------|--------|
| 10-02-16 | Rick | NØBJN  |
| 10-09-16 | Doug | WØDWB  |
| 10-16-16 | TJ   | KØTEG  |
| 10-23-16 | Dave | KCØTGT |
| 10-30-16 | Jay  | KAØDYN |
|          |      |        |
| 11-06-16 | Rick | NØBJN  |
| 11-13-16 | Doug | WØDWB  |
| 11-20-16 | TJ   | KØTEG  |
| 11-27-16 | Jay  | KAØDYN |

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?**

**If you know of a member needing a card of cheer, etc**—let Fritz know—His e-mail address is on this page.

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Got any Wants or For Sales? Send your ad to Fritz, and on a space-available basis, he will get it into the BAARCer.

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**Want Free Used Coax?**—Make arrangements with Fritz WØKO. He is cleaning stuff out—

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KEØKLO—is the new call sign of Yoshi Hirai, the CLC physics/math/engineering instructor. Congratulations, Yoshi! We hope to see him in our Club soon and at a meeting. He brings greetings from Dan Franz, WDØGUP, to the Brainerd group.

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**We are proud to announce that we have 90 members on our BAARC roster. Congratulations & thanks to the officers & members who, over the long haul, have made this happen.**

**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