



# MICH-A-CON

Iron Mountain,  
Dickinson County, Mich

January 2017

## Meeting Reminder: Second Wednesday of the Month

Which is **January 11, 2017** at 07:00 PM at the Dickinson Library, Iron Mountain.

## From The President

### Happy New Year to You All!!!

So far, my New Year hasn't started very well. My son fell off a roof last week and broke his left foot and shattered the heel on his right foot. He has surgery on January 12<sup>th</sup>. The orthopedic surgeon tried a splint on the foot but there was too much damage. So, my son will be off his feet for three months.

The fall was 12 feet. He was working on a new house and slid down the steep roof. Imagine what would have happened if he had landed on his back, or neck. Obviously, two broken feet is the best case scenario, other than not having any injury at all.

As tower climbers, we think about (or try not to think about) any fall. I know a ham, from many years ago, who fell off a stepladder and fractured his pelvis. He was in rough shape for many months. This occurred AFTER he had climbed 86 feet up his tower! O, be careful climbing anything at any height.

The ARRL RTTY ROUNDUP is this weekend, January 7-8, but I don't know if I can devote 30 hours to the contest. Even though it's one of my favorites, I have a few conflicts during the weekend. First, I visit my son who lives alone and needs company. Second, the Lions vs Seahawks at 7:15 Saturday evening. I'll probably have the volume cranked up on the TV in the basement. Also, with RTTY, I can always listen to the TV and even watch a replay, if something exciting happens. Of course with the Lions, it usually happens in the first half!

So, to all of you Packer fans, good luck Sunday. I definitely won't be watching that game. That time slot is the last two hours of the contest.

**The games and contest will most likely be history, by the time you read these Words.**

See you on Wednesday, January 11<sup>th</sup>, at 7:00 in the library.

73,  
Tom W8JWN

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## **MICH-A-CON AMATEUR RADIO CLUB MINUTES OF December 14th 2016**

President Tom Martin called the meeting to order at 7:00 pm.

### **Secretary Report**

Minutes of the November 9th meeting were read and approved.

### **Treasurer Report**

Balances as of December 14, 2015

Checking -\$27.72

Savings -\$1908.64 (Repeater - \$274.56)

Cash - \$22.00

### **Repeater Report**

Bob Meyers reported that the repeaters are working well. Skip Caswell has been able to hit it from Silver Lake. the two-meter machine is transmitting on the four-bay and receiving on the northwest antenna. The 440 unit still needs to be put on the new controller. This will be a job for when the weather is warmer.

Tom Martin reported receiving a call from a Grand Marais ham who reported repeater changes up north. The club newsletter and website needs to be updated accordingly.

Bob Meyers also noted that our repeaters are now capable of digital operation. If anyone is bothered by the noise, during digital operation, they can put a squelch code into their radio.

Dave Thomas reported that his repeater is operational on 147.135 MHz and that it is an open repeater.

### **Old Business**

Terry Moriarity reported that there have been no new QSL requests received from the Lighthouse Weekend activation, last August.

Tom Martin reported that all QSL cards and certificates from the Veterans Day special event station have been mailed out.

The club party has been scheduled for March 4, 2017 at Bartoletti's, in Aurora, Wisconsin. Cocktails



will be at 6:30 with dinner at 7:00. There will be a select menu, like last year.

Bob Meyers reported that an amateur radio class is very likely to be conducted in the new year. The specifics, however, still need to be ironed-out.

### **New Business**

The radio that was donated by Tim Miller is currently not in working condition. The situation has been referred to Gary Schafer.

Gary Schafer suggested that the club newsletter be emailed to licensed hams in the local area. The discussion that followed was in agreement.

Sam Holmes currently has the Echolink equipment that was previously active at Jared Paul's residence. He is seeking someone who would like to set it up and run it. Bob Meyers will take it until a location can be found for it.

### **Adjournment**

The meeting was adjourned at 7:25 pm. (Skip Caswell/Terry Moriarity)

The 50/50 drawing was won by Tim Miller, and donated to the club., The club treasury was enriched by \$75.00.

### **For the Good of the Order**

Attendees reported on their recent activities.

Submitted by Joe Ferris

### **Attendees**

Tom Martin, W8JWN  
Scott Jarmusch, KA8TFF  
Joe Ferris, KC9TQR  
Deb Grabowski, KD8VTS  
Burton Armbrust, Sr., WB8EBS  
Skip Caswell, KE9L  
Bob Meyers, WA8FXQ  
Dana Bey, W8BEY  
Terry Moriarity, K9TRY

Sam Holmes, N8ATS  
Dave Thomas, KG9Y  
Bill Grabowski, KD8VTT  
Gary Schafer, K4FMX  
Tim Miller, N8TUM  
Jared Paul, ND8M  
Bruce LaLiberte, Call Pending  
Joyce Williams, Visitor

## News

### FCC Dismisses Two Petitions from Radio Amateurs

ZCZC AG02  
 QST de W1AW  
 ARRL Bulletin 2 ARLB002  
 From ARRL Headquarters  
 Newington CT January 6, 2017  
 To all radio amateurs

The FCC has turned down two petitions filed in 2016, each seeking similar changes in the Part 97 Amateur Service rules. James Edwin Whedbee, NOECN, of Gladstone, Missouri, had asked the Commission to amend the rules to reduce the number of Amateur Radio operator classes to Technician, General, and Amateur Extra by merging remaining Novice class licensees into the Technician class and all Advanced class licensees into the Amateur Extra class. In a somewhat related petition, Jeffrey H. Siegell, WB2YRL, of Burke, Virginia, had requested that the FCC grant Advanced class license holders Morse code operating privileges equivalent to those enjoyed by Amateur Extra class licensees.

"Thus, Mr. Siegell's proposed rule change is subsumed within the changes Mr. Whedbee requests, so our analysis is the same for both proposals," the FCC said in dismissing the two petitions on January 5.

The FCC streamlined the Amateur Radio licensing system into three classes - Technician, General, and Amateur Extra - in 1999. While it no longer issues new Novice or Advanced class licenses, existing licenses can be renewed, and Novice and Advanced licensees retained their operating privileges.

"The Commission concluded that the three-class structure would streamline the licensing process, while still

providing an incentive for licensees to advance their communication and technical skills," the FCC recounted in its dismissal letter to Whedbee and Siegell. It specifically rejected suggestions that Novice and Advanced class licensees be automatically upgraded to a higher class, concluding that it would be inappropriate for these licensees to "receive additional privileges without passing the required examination elements." The FCC cited the same reason in 2005, when it denied requests to automatically upgrade Technician licensees to General class and Advanced licensees to Amateur Extra class, as part of a wide-ranging proceeding.

The FCC said the two petitions "do not demonstrate, or even suggest, that any relevant circumstances have changed that would merit reconsideration of those decisions."

Whedbee had argued that automatically upgrading current Novice and Advanced classes would simplify the rules and reduce the Commission's costs and administrative burden, but the FCC said Whedbee provided no evidence that an administrative problem exists.

"Moreover, such benefits would not outweigh the public interest in ensuring that amateur operators have the requisite incentive to advance their skill and technical knowledge in order to contribute to the advancement of the radio art and improvement of the Amateur Radio Service," the FCC said.

"The Commission has already concluded that it will not automatically grant additional privileges to the discontinued license classes," the FCC said. "Consequently, we conclude that the above-referenced petitions for rulemaking do not warrant further consideration at this time."

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## FCC Denies Expert Liners' Request

QST de W1AW  
ARRL Bulletin 45 ARLB045  
From ARRL Headquarters  
Newington CT December 28, 2016  
To all radio amateurs

ARLB045 FCC Denies Expert Liners' Request for Waiver of 15 dB Rule, Petition Pending

The FCC has denied a request by Expert Liners America LLC to waive Part 97.317(a)(2) of the Amateur Service rules limiting amplifier gain. Expert, of Magnolia, Texas, distributes liners manufactured by SPE in Italy. Its waiver request, filed in June, would have allowed Expert to import an amplifier capable of exceeding the current 15 dB gain limitation as it awaits FCC action on its April petition (RM-11767) to revise the same Amateur Service rules. That petition remains pending. Expert has asserted that there should be no gain limitation on amplifiers sold or used in the Amateur Service. Most commenters supported Expert's waiver request, but a couple of commenters - including FlexRadio - demurred.

"In light of the conflicting comments regarding the desirability of eliminating the 15 dB limitation, we conclude that waiving the limitation at this stage of the rulemaking proceeding would prejudice the rulemaking proceeding and prematurely dispose of commenters' concerns," the FCC said in denying the waiver.

"Moreover, we agree with FlexRadio that granting Expert's waiver request while the rulemaking petition remains pending would provide an unfair market advantage for one equipment model over other manufacturers' RF power amplifiers that would still be limited by [the existing rules]."

The FCC said it would rather give full consideration to "the pending issues" and apply the result of the rulemaking proceeding to all Amateur Radio Service equipment. The Commission said rule waivers "generally" are not warranted "merely to accommodate technical pa-

rameters that are based solely on harmonization with the manufacturer's products available abroad."

The FCC said a minority of those commenting on the waiver request expressed concern that eliminating the 15 dB limitation would lead to an overall increase in power levels, "including transmissions that intentionally or unintentionally exceed the maximum power limit."

In its April rulemaking petition, Expert maintained that the 15 dB gain limitation is an unneeded holdover from the days when amplifiers were less efficient and the FCC was attempting to rein in the use of Amateur Service amplifiers by Citizens Band operators.

Although the FCC had proposed in 2004 to delete the requirement that amplifiers be designed to use a minimum of 50 W of drive power - and subsequently did so - it did not further discuss the 15 dB limit in the subsequent Report and Order in that proceeding.

Expert has pointed to its Model 1.3K FA amplifier as an example of a linear "inherently capable of considerably more than 15 dB of amplification," which would make it a suitable match for low-power transceivers now on the market.

The full Report and Order can be found on the web in PDF format at, [https://apps.fcc.gov/edocs\\_public/attachmatch/FCC-06-149A1.pdf](https://apps.fcc.gov/edocs_public/attachmatch/FCC-06-149A1.pdf).

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## *Ham Radio Class*

# **MICH-A-CON**

## **Amateur Radio Club**

The Mich-A-Con amateur radio club will be conducting a ham radio class starting Wednesday, January 11 at 7:00 in the Dickenson County Library. The class is expected to meet weekly until March 1. At the end of the class there will be a test session scheduled so the students can obtain their Ham Radio License.

Contact:      Bob Meyers at      906 396-0119  
or                Skip at                        906 774-3371

## ***Houghton Ham Test Reschedule***

Due to inclement weather the ham exams scheduled for Saturday, January 7, 2017 in Houghton County (Quincy Hill) have been cancelled.

The next scheduled exam will be April 1, 2017

This announcement authorized by Glenn P. Ekdahl, WA8QNF

73,

George Turner, W8FWG

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**See Classified for Estate Sale**

## ARLB032 W1AW 2016/2017 Winter Operating Schedule

QST de W1AW  
ARRL Bulletin 1 ARLB001  
From ARRL Headquarters  
Newington CT January 3, 2017  
To all radio amateurs

### Morning Schedule:

Time	Mode	Days
1400 UTC (9 AM EST)	CWs	Wed, Fri
1400 UTC (9 AM EST)	CWf	Tue, Thu

Daily Visitor Operating Hours:

1500 UTC to 1700 UTC - (10 AM to 12 PM EST)  
1800 UTC to 2045 UTC - (1 PM to 3:45 PM EST)  
(Station closed 1700 to 1800 UTC (12 PM to 1 PM EST))

### Afternoon/Evening Schedule:

2100 UTC (4 PM EST)	CWf	Mon, Wed, Fri
2100 " "	CWs	Tue, Thu
2200 " (5 PM EST)	CWb	Daily
2300 " (6 PM EST)	DIGITAL	Daily
0000 " (7 PM EST)	CWs	Mon, Wed, Fri
0000 " "	CWf	Tue, Thu
0100 " (8 PM EST)	CWb	Daily
0200 " (9 PM EST)	DIGITAL	Daily
0245 " (9:45 PM EST)	VOICE	Daily
0300 " (10 PM EST)	CWf	Mon, Wed, Fri
0300 " "	CWs	Tue, Thu
0400 " (11 PM EST)	CWb	Daily

### Frequencies (MHz)

CW: 1.8025 3.5815 7.0475 14.0475 18.0975 21.0675  
28.0675 147.555  
DIGITAL: - 3.5975 7.095 14.095 18.1025 21.095  
28.095 147.555  
VOICE: 1.855 3.990 7.290 14.290 18.160 21.390  
28.590 147.555

### Notes:

CWs = Morse Code practice (slow) = 5, 7.5, 10, 13 and 15  
WPM CWf = Morse Code practice (fast) = 35, 30, 25, 20,

15, 13 and 10 WPM CWb = Morse Code Bulletins = 18  
WPM  
CW frequencies include code practices, Qualifying Runs  
and CW bulletins.  
DIGITAL = BAUDOT (45.45 baud), BPSK31 and MFSK16 in a  
revolving schedule.

The voice mode used for W1AW's 40 meters voice bulletins is now full-carrier, double sideband AM.

Code practice texts are from QST, and the source of each practice is given at the beginning of each practice and at the beginning of alternate speeds.

On Tuesdays and Fridays at 2330 UTC (6:30 PM EST), Keplerian Elements for active amateur satellites are sent on the regular digital frequencies.

A DX bulletin replaces or is added to the regular bulletins between 0100 UTC (8 PM EST) Thursdays and 0100 UTC (8 PM EST) Fridays.

Audio from W1AW's CW code practices, CW/digital bulletins and phone bulletin is available using EchoLink via the W1AW Conference Server named "W1AWBDCT." The monthly W1AW Qualifying Runs are presented here as well. The audio is sent in real-time and runs concurrently with W1AW's regular transmission schedule.

All users who connect to the conference server are muted. Please note that any questions or comments about this server should not be sent via the "Text" window in EchoLink. Please direct any questions or comments to [w1aw@arrl.org](mailto:w1aw@arrl.org).

In a communications emergency, monitor W1AW for special bulletins as follows: Voice on the hour, Digital at 15 minutes past the hour, and CW on the half hour.

All licensed amateurs may operate the station from 1500 UTC to 1700 UTC (10 AM to 12 PM EST), and then from 1800 UTC to 2045 UTC (1 PM to 3:45 PM EST) Monday through Friday. Be sure to bring your current FCC amateur radio license or a photocopy.

The W1AW Operating Schedule may also be found on page 96 in the January 2017 issue of QST or on the web at, <http://www.arrl.org/w1aw-operating-schedule>.

# ARRL MICHIGAN SECTION NEWS

Greetings to the Hams of Michigan:

We are that special time of year where we seek to spend time with loved ones, share the holidays, break bread together, celebrate and give thanks for the things that we have. In addition, we face a new year which will be filled with challenges and rewards and with opportunities to make the coming year better than the previous one.

Both Diane and I wish everyone the best for this holiday season and the coming year.

## Hamfest at Michigan International Speedway

We have assembled our management team and are beginning the process of putting the pieces together to form our parent organization, which will be known as the Great Lakes Amateur Radio Association, which will be a 501 (c) (3) corporation. We have settled on the dates of October 7 and 8, 2017 for our event at MIS.

In the past couple of months I have visited 8 club meetings to talk about the event and am very pleased to report all clubs were very positive and excited about the event. I have more club meetings to attend in the next 2-3 months to complete the process of getting the assistance that we need.

Flyers and other documentation are under development and will be available for distribution soon. Stay tuned for more information as this exciting event comes to life.

More details soon.....

## Michigan Distracted Driving Bill

The Michigan Distracted Driving bill that was known as HB 6857 will be reintroduced in the 2017 Legislative session under a new number. We will be monitoring the bill to ensure that our ability to operate our equipment from our vehicles is not affected.

## Amateur Radio Parity Act

ARRL Vows Continued Pursuit of the Amateur Radio Parity Act in the 115th Congress

12/09/2016

The Amateur Radio Parity Act, H.R. 1301, died an unbecoming death as the 114th Congress of the United States drew to a close today. After having passed the House of Representatives on a unanimous vote, the bill stalled in the Senate due to the intervention of only one member, Sen. Bill Nelson (D-FL).

Over the course of the past year, Sen. Nelson has received thousands of e-mails, letters, and phone calls from concerned constituents asking for his support of H.R. 1301. Numerous meetings were held with his senior staff in an effort to move the legislation forward. Negotiations, which led to an agreement with the national association of homeowner's associations and publicly supported by CAI and ARRL, were brushed aside by Sen. Nelson as irrelevant.

In a final meeting with the Senator's staff earlier this week, it became clear that no matter what was said or done, the Senator opposed the bill and refused to allow it to move forward. Unfortunately, as the bill did not receive floor time, the only manner in which it could get passed in the Senate would be through a process that required unanimous consent, which means no one opposes the bill.

The legislation will be reintroduced in both houses of Congress after the 115th Session begins in January. We have already been in contact with the sponsors of the bill to allow for an early introduction, which will give us more time to obtain success. We believe that we can get his bill adopted given the fact that we were inches away from crossing the goal line. We will continue to need the support of the membership, particularly in Florida, as we go forward through the next year.

(While this outcome is a bit of a kick in the ribs, the ARRL will begin anew when the 115th Congress is called to order in 2017. We learned a lot and are determined to make this happen. Many thanks go to all the Michigan





amateurs who authored letters to our Senators on behalf of the Amateur Radio Parity Act.) LC

MSPOTA is sponsored by The Northern Michigan Amateur Radio Service Team (NM8RT).

**Club Officers Elected**

The following clubs have elected new officers for 2017:

For MSPOTA news and progress or to volunteer to help, please visit the “MSPOTA” group on Facebook or email Will at [w8wdr@arrl.net](mailto:w8wdr@arrl.net).

**Branch County Amateur Radio Club**

Many thanks to W8WDR for this informational update and many thanks to the MSPOTA development team for working so hard to bring this fun activity to the hams of Michigan.

President: Roy McCloud, AB8RM  
 Secy/Treasurer: Ted Hadfield, KU8F  
 Board of Directors: Justin Lopshire. KD8JEL, Arnie Hayward, NS8T, Jim Voss, WV0SS

**Section Staff Travel Plans**

**Oakland County Amateur Radio Society**

- Dec 19, 2016 Great Lakes ARA Meeting, Coldwater, MI – WB8R, et al
- Dec 20, 2016 CARS Club Meeting, Jackson, MI – WB8R
- Jan 12, 2017 LARK Meeting, Howell, MI – WB8R
- Jan 19, 2017 Hillsdale ARC, Hillsdale, MI – WB8R
- Jan 29, 2017 Hazel Park Swap & Shop, Madison Hgts, Mi – WB8R

President: Scott Craig, N2OPQ  
 Treasurer: John Eldred, N8FNN  
 Secretary: Ken Stuter, W8KRS

My sincere thanks goes to all who volunteered to serve and to lead. Clubs are the true lifeblood of amateur radio and accepting the leadership challenge is a noble offering of your valuable skills and time.

- Feb 4, 2017 HARA Shop & Swap – Negaunee, MI – WB8R**
- Feb 7 – 10 MPSCS Interop Conf. Traverse City, MI – WB8R
- Feb 11, 2017 Traverse City Hamfest –WB8R
- Feb 12, 2017 South Lyon AARC Mtg, South Lyon, MI – WB8R
- Feb 19, 2017 Livonia ARC Swap & Shop – WB8R
- Mar 4, 2017 MI Sec Staff Meeting – Lansing, MI WB8R & Staff
- Mar 11, 2017 Lowell Amateur Radio Youth Club Ham fest – WB8R
- Mar 18, 2017 Crossroads Hamfest, Kalamazoo, MI – WB8R
- Apr 22, 2017 Chassell Hamfest, Chassell, MI**
- May 6, 2017 Cadillac Hamfest, Cadillac, MI – WB8R

**Michigan State Parks on the Air (MSPOTA)**

Beginning in the spring of 2017, MSPOTA will run through 2019 and incorporate Michigan’s 107 State Parks, Recreation Areas, Scenic and Memorial Sites. Our target date for startup is March 1. Starting prior to that is problematic in that Park Staff would be limited.

**Hospitality Acknowledgements**

MSPOTA goes beyond “pulling up and keying up” as it is a cooperative program between Michigan amateur radio operators and DNR Parks & Recreation Division to mutually promote one another’s interests. MSPOTA is designed to allow regional and statewide activation opportunities throughout the event and is coordinated with other MDNR Parks & Recreation Division programs. The event will feature about fifty parks available for activation in each of the three event years with some parks active throughout the entire event.

- Thanks to the following groups for their fine hospitality on recent visits:
- Nov 17, 2016 SMARS Club Meeting, Battle Creek, MI – WB8R
  - Nov 23, 2016 Chelsea ARC Meeting, Chelsea, MI – WB8R
  - Dec 4, 2016 L’Anse Creuse Swap, Madison Heights, MI – WB8R
  - Dec 9, 2016 CMARC Meeting – WB8R

The schedule is being finalized and will be available after the first of the year. MSPOTA’s online logging, scheduling and award tracking system is currently being assembled. We will be seeking local clubs to sponsor parks, act as QSL bureaus and tend to parks local to them.

### Michigan Section Traffic/ARPSC Nets (all times local)

Please note that time adjustments may be necessary due to propagation changes. Contact your net manager for alternate frequencies and/or times.

MACS - MI Amateur Communications System 3.952 1000 Daily

UPN – Upper Peninsula Net 3.921 1700 Daily; Noon Sunday

MIARPSC – MI Amateur Radio Public Service Corps 3.932 1700 Sunday

QMN – The Michigan Net 3.563 1830 and 2200 Daily

MITN – MI Traffic Net 3.952 1900 Daily

MIDTN – MI Digital Traffic Net 3.583 (Olivia 8/500) in waterfall 2000 Tues, Thurs, Sat

MIADS – MI ARES D-Star Net Reflector 24A Mon 2000

D8EN - District 8 Emergency Net 3.909 Wed 2100

GLETN – Great Lakes Emergency and Traffic Net 3.932 2000 Daily

MVTN – MI VHF Traffic Net IRA Link System 2100 Mon, Wed, Fri, Sun

NLEUP - Northern Lower Eastern UP Net 146.64- 18:30 Daily

SEMTN – SE MI Traffic Net 146.76- 2215 Daily

TMMTN – Thumb Mid-Michigan Traffic Net 147.30+ 2130 Mon - Sat

More information is available at <http://nts-mi.org/>. Come join us on our traffic and public service nets.

### Michigan ARPSC Activities November 2016

Station Activity Reports (SAR): November, 2016:

WB8WKQ 321, K8ED 182, WD8MWD 72, WB8TQZ 71, WD8USA 62, K8RDN 48, WB8RCR 20, KC8NFN 8, N8OSL 6, WB8R 6

Total SAR reported: 796

Brass Pounder's League (BPL): None

Public Service Honor Roll (PSHR): WB8R 199, KC8YVF 198, WD8USA 180, WB8RCR 178, N8OSL 153, K8RDN 142, WD8MWD 130, WB8TQZ 110, WB8WKQ 110, K8ED 90, KE8BYC 65, KC8NFN 48, KD8LSM 39.

Michigan Traffic Net 76, Michigan Amateur Communications System 65, Southeastern Michigan Traffic Net 44, Upper Peninsula Net 35, Great Lakes Emergency and Traffic Net 28, Michigan Digital Traffic Net 11, Genesee County ARPSC Traffic and Training Net 5, Saginaw County ARES Net 4, Michigan Amateur Radio Public Service Corps 2, Bay Area Regional Traffic System 1, Michigan VHF Traffic Net 1, District 3 ARPSC Net 1, District 8 Digital Emergency Net, District 5 Hospital Net, Branch County Emergency Net, Chelsea ARC Net, Luce County ARES Net, Red Cross Net of Greater Grand Rapids, District 8 Emergency Net, Michigan ARES D-Star net.

Total net traffic reported: 273

Volunteer Hours Dollar Value:

ARPSC: \$ 178,632

NTS: \$35,504

Total Dollar Value October, 2016: \$214,136

A hearty thank you goes to the hundreds of volunteers across the State of Michigan who work hard as volunteers to hone their skills month after month to make sure they are ready for any situation that may arise. Our ARPSC and NTS programs are an integral part of AuxComm, which in turn is an integral part of the Michigan Homeland Security Division.

73 until next month,

Larry, WB8R

## *Dales Tales*

Greetings everyone, welcome to "Dale's Tales" for January 2017.

**MOVING INTO THIS NEW YEAR** is going to bring some interesting challenges. First, ARRL will be considering the approach it will plan to use to re-introduce a bill to allow residents of Homeowner association-managed properties to allow effective antenna system. This bill known in 2016 as the Amateur Radio Parity Act was blocked in the Senate and therefore failed passage. I am confident much of our forthcoming January Board meeting will involve strategic development relating to this important issue.

With National Parks on the Air all wrapped up, like you, I am anxious to learn what exciting on-the-air challenge may face us next. Sorry, I have not even heard a rumor. What a great event NPOTA was with 1,040,000-plus contacts made and virtually all of the Park units activated by more than 19,460 different operations. This really exceeded most everyone's expectations.

The following is the **Great Lakes Division's Annual Report** as submitted to the ARRL Board of Directors. It highlights most of the major activities in the Division during 2016.

### **Great Lakes Division      2016**

**Political actions:** Kentucky Section Manager Alan Morgan KY1O was honored to appoint Jenean M. Hampton, K5EIB the Lieutenant Governor of the Commonwealth of Kentucky as an ARRL State Government Liaison. The Lt Gov speaks regularly across Kentucky wearing her official ARRL Name/Call badge and actively promotes Amateur Radio. She has directed the Kentucky Emergency Management agency to work closer with KY ARES groups as well.

All three Great Lakes Division Section Managers were very active at hamfests and club meetings throughout the year promoting the Amateur Radio Parity Act.

Michigan ARPSC/Auxcomm personnel played a large role at the annual Michigan Public Service Communication System Interoperability Conference at Traverse City in February. MI ARPSC/Auxcomm personnel made significant progress installing antennas and setting up Auxcomm radio facilities at the new Michigan State Emergency Operating Center in Lansing, MI

The Michigan SGL and SM met with Michigan State Representative Howrylak at his request, to assist with the wording of a distracted driving bill to keep law from potentially making mobile amateur radio operation illegal.

Ohio's ARES group was directly involved with the Republican National Convention and the NAACP National Convention. They provided vital voice and digital communications links between the Cuyahoga County Emergency Operations Center, the Cleveland Emergency Operations Center to the State of Ohio Emergency Operations Center in Columbus, to the Regional Operations Center in Cincinnati and the Red Cross Regional Operations Center in Akron.

**Emergencies: # ARES Activations.** During the week of January 18, some 8,100 water customers in Sebring, Ohio, were notified that they had problems with high lead content in their drinking water. On January 22, both Ohio and Mahoning County Emergency Management Agencies began passing out bottled water in Sebring. Mahoning County ARES was activated to help. And, they did just that! ARES volunteers joined others in moving and distributing pallets of bottled water, and another call went for weekend duty. ARES members from neighboring counties also volunteered. All told, the volunteers moved more than 166 pallets of water in 6 days. "This is a perfect example of being ready to serve in whatever capacity we can, in order to help our communities. Sometimes it doesn't involve only operating a radio"

ARES members in the Kentucky Section carried out several missions supporting communications including floods, other weather emergencies, and a missing/downed plane and pilot. They assisted CAP and SAR efforts where the plane was found in a heavily wooded area. They also participated in the Kentucky COMEX with improved participation this year.

Ohio ARES groups were active for assistance at the Cleveland Cavaliers Championship Celebration in Cleveland and communications for the Toledo Air Show. Ohio ARES group was also activated several times this year to provide communications for Algae Bloom situations for events taking place on Lake Erie and the Ohio River.

Ohio ARES also has contributed over 5,000 man-hours of service this year to the National Weather Service for Skywarn duties. So far this year they have had 10 tornadoes in Ohio, with numerous other weather related incidences effecting thousands of citizens.

**Major Events:** Michigan hams organized and coordinated the June 2016 "Light Up the Trail" weekend NPOTA event to activate the full length of the North Country Trail that travels through seven states.

During the course of 2016, the SM and/or Section Staff attended 21 hamfests, 9 club meetings, a Section Staff meeting and a Section Family Outing in the woods of Northern Michigan that featured the annual Section EC meeting. Ohio held its annual Section Conference in August plus the annual Ohio State Parks on the Air Contest and the Ohio ARES Statewide Conference during September. The Ohio Section Cabinet and SM attended 27 hamfests, including the Dayton Hamvention, where they staffed the Ohio Section Booth within the ARRL EXPO. They also attended over 150 club meetings, picnics/parties and special events this year. The Ohio Section has gained nine new Affiliated Clubs this year and grown with three Special Service Clubs.

**Hamfests/Conventions:** There were 70 ARRL Sanctioned hamfests in the Great Lakes Division in 2016. ARRL was represented at all by a SM, Director, Vice Director or designee. State Conventions were held in Ohio and Kentucky this year, and plans are now in process for the Great Lakes Division Convention to be held in Michigan in 2017.

2016 ARRL Kentucky State Convention held in conjunction with the Greater Louisville Hamfest in Shepherdsville, KY was a huge success this year with attendance. Jenean M. Hampton, K5EIB the Lieutenant Governor of the Commonwealth of Kentucky was also a special guest and gave the official Welcome speech at the 2016 ARRL Kentucky State Convention.

**Clubs:** In Kentucky, several clubs have sponsored Technician Classes and with the help of a well-known guest, the Woodford County ARC actually had KY Lt Governor Hampton, K5EIB participate and make a presentation to motivate the students to get their licenses.

The Division recognized the 75th Anniversary of three clubs during 2016: Dial Radio Club, OH, Queen City

Emergency Net, OH, and Monroe County Radio Communications Assn., MI

**Awards & Honors:** Hiram Percy Maxim Award – At a special presentation ceremony hosted by his local club, the Westchester Amateur Radio Assn., Christopher Brault, KD8YVJ received the plaque honoring him with ARRL's Hiram Percy Maxim Award. The Allan Severson Memorial Award (Ohio Amateur of the Year) honored John Myers, KD8MQ. The Michigan Section Commendation Certification was presented to Tim Crane, WM8A for his exceptional work rebuilding and improving the ARES/RACES organization in Genesee County, MI. Ohio hosted its 24TH Annual Newsletter Contest

Awards: 1st Place The Mike & Key, 2nd Place: The RADIOGRAM, 3rd Place, a two way tie: The Voice Coil and ATCO Newsletter. Honorable Mentions went to: The CARA Communicator and The Spirit of '76 and '88. Ohio extended Special Recognitions to • David Sumner, K1ZZ – Honorary Ohio Section Life Member; • Norm Fusaro, W3IZ and Sean Kutzko, KX9X – Special Recognition for their work with National Parks On The Air (NOPTA); • Dial Radio Club – Special Recognition for 75 years of ARRL Affiliation; • Arlin Bradford, KD8EVR and Tom Miller, N8TWM – Advancing Digital Mobile Radio (DMR) in the Ohio Section; • Christopher Brault, KD8YVJ – Outstanding Young Amateur in the Ohio Section; • Queen City Emergency Net – Special Recognition for 75 years of ARRL Affiliation; • Portage County Amateur Radio Service – Special Recognition for their more than 10 years of giving back to their local charities with cash donations exceeding \$3,000; • Bob Johnson, K3RC and Kitty Hevener, W8TDA – Special Recognition for their past service with the Ohio Section as Cabinet Members; • Nick Pittner, K8NAP – Special Recognition of his past service with the Ohio Section as a Cabinet Member and author of the Ohio Section Antenna Law.

**Vice Director Delaney and I** wish to extend an important Thank You to our Section Managers for their wonderful efforts in promoting amateur radio and ARRL in their respective Sections. Alan KY10, Larry WB8R and Scott N8SY, you guys are the greatest!

**Vice Director Tom Delaney W8WTD** was appointed as Board Liaison to the ARRL RF Safety Committee, and also serves on the Entry Level License Committee. Dir. Wil-



liams was re-elected to the ARRL Executive Committee, appointed to Chair the Ethics and Elections Committee and serves as Chair of the Public Safety Enhancement Working Group. Dir.

Williams also assisted the re-drafting of guidelines for the Card Checker program.

The Great Lakes Division ARRL membership has seen a slight decline in aggregate membership over the past 11 months, from 12,767 to 12,478.

The figures are much in alignment with the 2016 rate experienced by other Divisions and reflect expectations of reductions caused by the dues increase.

73 s/ Dale Williams WA8EFK Director  
Great Lakes Division

**TOM'S COMMENTS:** Comments from our Vice Director Tom Delany W8WTD

When you get to the end of December, you tend to look back and forward.

So here goes – looking back, it was a particularly good year for ham radio in terms of the NPOTA event. Over a million QSOs. How many of those would NOT have taken place if not for this great activity? Hard to say. But probably a substantial number of them. Hope you participated, and hope you had fun. What's next? I don't know, but new activities along these lines are being promised. We'll see what they come up with, but it should be more fun.

When I think of all the contacts I made, I know that I spent more time on the radio because of the event. A friend and I used to kid about making our "one contact" for the day, sort of like the "apple a day..." maxim. So for next year, I'd encourage everyone to try that. Maybe you'll end up with a lot of once-a-day repeater contacts, but can that be so bad? Everyone complains that repeater use is in decline. Let's make sure we use that resource. And there are other events, contests, etc. Something for everyone. What contacts will you make during the coming year?

Looking to the new year, there are two activities I hope we continue with very strongly. They're related—education and elmering. Both bring new people into

ham radio, either with licensing or by encouraging the new licensees to get and remain active. There are so many success stories throughout the division. There are nets for new people. There are informal get-togethers apart from club meetings, and there are club meetings where new and useful topics are discussed. Hams attend "Makers' Faires" and go to Scouting events, and all sorts of other events, all trying to recruit new people to our hobby. So many clubs in the division continue to offer classes for all license levels. Keep up the good work!

And that reminds me. I do have a request for those of you who are in charge of your club's classes. Please make sure, as many of you already do, that your class is registered with ARRL so that it can be put on the website. Yes, you have your own ways of recruiting prospective hams, and please keep doing that. But you never know when someone will be looking around for information, and come across your listing. Let's find every possible way to publicize our work. And get your instructors registered, so they can get all the latest information and material from ARRL.

As we look ahead, there are always new things and new challenges.

Hamvention®, for instance, will be completely new. And I'm sure there will many challenges throughout the year. Let's stay prepared for emergencies, keep working on our technical skills, and enjoy being amateur radio operators!

73, Tom W8WTD Vice Director, Great Lakes Division

**Here is the current Great Lakes Division ARRL Sanctioned Hamfest Schedule** covering the next few weeks.

These swaps have received their sanctioning approval from ARRL HQ at the time of this publication. We have approximately 65 ARRL hamfests each year in the Division. I do encourage each Hamfest Chair to register early for ARRL Sanctioning.

Be sure to invite your ARRL Officials as soon as your date is set. Tom and I are already committed for sever-

al dates in 2017 as are our Section Managers Scott N8SY, Alan KY1O and Larry WB8R.

Jan 15 - SCARF Hamfest - Nelsonville, OH

Jan 29 - TUSCO Hamfest - Strausburg, OH

Jan 29 - Hazel Park - Hazel Park, MI

**Feb 4 - HARA Swap - Negaunee, MI**

Feb 11 - Cherryland - Traverse City, MI

Feb 19 - Mansfield - Mansfield, OH

Feb 19 - Livonia - Livonia, MI

Mar 4 - Cave City - Cave City, KY

Mar 11 - Lowell - Lowell, MI

Mar 18 - Crossroads - Kalamazoo,

MI Mar 18 - MOVARC - Gallipolis, OH

Mar 19 - Toledo Mobile ARA - Perrysburg, OH

Be sure to check your Section's news pages for the latest local happenings, club and net information.

73, Let's be radio-active!

Dale Williams WA8EFK

Director

Great Lakes Division

## ARRL PROPAGATION BULLETIN

QST de W1AW

Propagation Forecast Bulletin 1 ARLP001

From Tad Cook, K7RA Seattle, WA

January 6, 2017 To all radio amateurs

22, 10 on January 23, and 5 on January 24-26, then 12, 15, 10, 12 and 18 on January 27-31, then 24, 22, 15 and 8 on February 1-4 and 5 on February 5-9.

F.K. Janda, OK1HH delivered his geomagnetic predictions a day early this week:

The Sun was quieter this reporting week compared to the previous seven days. There were 4 zero-sunspot days, Thursday December 29, Sunday, Monday, and Wednesday, plus a fifth on the following Thursday, January 5. Geomagnetic numbers were also lower.

Geomagnetic activity forecast for the period January 6-February 1, 2017.

Average daily sunspot number decreased from 7.6 to 4.7, average daily solar flux declined a half point from 73.6 to 73.1, while average daily planetary A index went from 17.3 to 9.3. Average mid-latitude A index went from 11.6 to 6.3.

Geomagnetic field will be:

Quiet on January 8-10, 16, 24-25,

Mostly quiet on January 11-12, 15, 26, 30, Quiet to unsettled on January 23, 27, 29 Quiet to active on January 6-7, 13-14, 17-18, 28, 31 Active to disturbed on January 19-20, (21-22,) February 1

The latest forecast sees solar flux at 72 on January 6, 71 on January 7-13, 76 on January 14, 77 on January 15-19, 75 on January 20-24, 74 on January 25-27, 73 on January 28 through February 2, 75 on February 3-7, 76 on February 8-10, and 77 on February 11-15.

Increases in solar wind from coronal holes are expected on January 6-8, 17-20, 25, (27-31,) and February 1.

Parenthesis means lower probability of activity enhancement.

The Ap prediction for planetary A index sees 18, 14, 10, 6 and 5 on January 6-10, then 12 on January 11-12, 8 and 10, on January 13-14, then 5 on January 15-16, then 25, 20, 25, and 18 on January 17-20, then 20 on January 21-

Jon Jones, NOJK wrote:

"Nice activity on 6 meter meteor scatter in the Quadrantids Meteor Shower Jan. 3, 2017.



"I set up portable on 50 MHz about 8 am this morning west of Lawrence, Kansas. Very cold and strong wind -- wind chill 10 deg F here in Lawrence.

"Two contacts in 5 minutes -- W4HLR and WZ8D on 50.145 MHz SSB. I CQ'd a while longer, got cold and packed up.

"Listened from home on 50.145 and heard a loud 'blue whizzer' on WZ8D at 1447z - worked John again easily with the attic dipole. Near as I can tell -- the peak of the Quads was between 1400 - 1530z.

"N8JX EN64 heard me earlier, but weak. I am blocked by a hill to the northeast to N8JX from home, so back out portable at 1510z. Worked Terry in 2 minutes on 50.145 MHz at 1513z. I was running 100 W and 2 el yagi. He pegged the meter.

"Lots of meteor scatter activity on 6 meters with the new MSK144 mode. It is very efficient. But nice to see the old school SSB meteor scatter activity in the Quads."

Jon mentioned MSK144, a new WSPR mode for meteor scatter. Details here:

[https://physics.princeton.edu/pulsar/k1jt/Release\\_Notice.txt](https://physics.princeton.edu/pulsar/k1jt/Release_Notice.txt)

If you would like to make a comment or have a tip for our readers, email the author at [k7ra@arrl.net](mailto:k7ra@arrl.net).

For more information concerning radio propagation, see the ARRL Technical Information Service web page at, <http://arrl.org/propagation-of-rf-signals>. For an explanation of numbers used in this bulletin, see <http://arrl.org/the-sun-the-earth-the-ionosphere>.

An archive of past propagation bulletins is at <http://arrl.org/w1aw-bulletins-archive-propagation>. More good information and tutorials on propagation are at <http://k9la.us/>.

Monthly propagation charts between four USA regions and twelve overseas locations are at <http://arrl.org/propagation>. Instructions for starting or ending email distribution of ARRL bulletins are at <http://arrl.org/bulletins>.

Sunspot numbers for December 29, 2016 through January 4, 2017 were 0, 11, 11, 0, 0, 11, and 0, with a mean of 4.7. 10.7 cm flux was 73.4, 73.6, 73.5, 72.5, 73, 73.4, and 72.4, with a mean of 73.1.

Estimated planetary A indices were 5, 4, 12, 14, 7, 12, and 11, with a mean of 9.3. Estimated mid-latitude A indices were 2, 2, 10, 9, 5, 8, and 8, with a mean of 6.3. NNNN

## ARRL DX NEWS

QST de W1AW  
DX Bulletin 1 ARLD001  
From ARRL Headquarters  
Newington CT January 5, 2017  
To all radio amateurs

This week's bulletin was made possible with information provided by QRZ DX, the OPDX Bulletin, 425 DX News, The Daily DX, DXNL, Contest Corral from QST and the ARRL Contest Calendar and WA7BNM web sites.

Thanks to all.

**MADAGASCAR, 5R.** Gaby, DF9TM, Frank, DL2SWW and Baldur, DJ6SI are QRV as 5R8UJ, 5R8UR, and 5R8GC, respectively, from Nosy Be, IOTA AF-057, until January 12. Activity is on the HF bands. QSL to home calls.

**MALDIVES, 8Q.** Rolf, DL8AZ is QRV as 8Q7AZ from Meerufenfushi Island, IOTA AS-013, until January 11. Activity is holiday style on

40 to 10 meters using SSB. QSL to home call.

**CAPE VERDE, D4.** Per-Olof, SM5EPO is QRV as D44TBT from Sal Island, IOTA AF-086, until January 12. Activity is on the HF bands. QSL to home call.

**FEDERAL REPUBLIC OF GERMANY, DA.** The DARC club from Herten is QRV during 2017 with special event call sign DK60HERTEN to celebrate its 60th anniversary. QSL via bureau.

**SOUTH COOK ISLANDS, E5.** Erik, K7ADD is QRV as E51ADD from Rarotonga Island, IOTA OC-013, until January 9. Activity is on 160 to 10 meters using SSB and RTTY. QSL direct to home call.

**HUNGARY, HA.** Special event station HG17EYOF is QRV until August 31 to celebrate the European Youth Olympic Festival, an every-other-year event for youth athletes from 48 member countries, that is being held in Gyor from July 23 to 29. QSL via operators' instructions.

**ALAND ISLANDS, OH0.** Special event call sign OF0TA is QRV until January 8 to commemorate Finland's independence 100 years ago. Activity is on 160, 80 and 30 meters. QSL via operator's instructions.

**ARUBA, P4.** Ed, WOYK is QRV as P49X from Pos Chiquito until January 9. Activity is on the HF bands. This includes an entry in the ARRL RTTY Roundup contest. QSL to home call.

**BONAIRE, PJ4.** Peter, PA8A will be QRV as PJ4B from January 8 to 25. Activity will be holiday style on 40 to 10 meters. QSL direct to home call.

**PALAU, T8.** Kazuyoshi, JH6WDG is QRV as T88AQ from Koror Island, IOTA OC-009, until January 13. Activity is on 160 to 6 meters using CW, SSB and various digital modes. QSL to home call.

**GUATEMALA, TG.** Dick, DJ2EH will be QRV as TG9/DJ2EH from January 10 to 24. Activity will be on the HF bands using CW and RTTY. QSL to home call.

**BELIZE, V3.** Rich, K8NDS will be QRV as V31RF from January 9 to February 6. Activity will be on 40, 20 and 17 meters using SSB. QSL via operator's instructions.

**MICRONESIA, V6.** Operators JA3ARJ, JH3LSS, JA3AVO, JH3PBL and W7AYA are QRV as V63ARJ, V63LSS, V63AVO, V63PBL, and V63AYA, respectively, from Pohnpei Island, IOTA OC-101, until January 22. Activity is on 160 to 6 meters using CW, SSB and various digital modes. QSL to home calls.

**CANADA, VE.** Members of the Yukon Canam Contest Club are QRV with special event call sign XK150YUKON until March 1 to celebrate Canada's 150th state anniversary. QSL via KC1CWF.

**MEXICO, XE.** Members of the radio club Queretaro are QRV with special event call sign 6E0C until April 30 to commemorate the ratification of the Mexican Constitution 100 years ago. QSL via XE1EE.

**LAOS, XW.** Ken, K4ZW is QRV as XW4ZW from Vientiane until January 15. Activity is on the HF bands, with a focus on the low bands, using CW. QSL via K1SE.

**THIS WEEKEND ON THE RADIO.** The ARRL RTTY Roundup, Kid's Day SSB Contest, EUCW 160-Meter CW Contest, DARC 10-Meter Contest, NCCC RTTY Sprint, QRP 80-Meter CW Fox Hunt, NCCC CW Sprint, PODXS 070 Club PSKFest, SKCC Weekend CW Sprintathon, World Wide PMC Contest and the Original QRP Contest are all on tap for this first weekend of the new year.

The Phone Fray, CWops Mini-CWT CW Test, AWA Linc Cundall Memorial CW Contest and QRP 40-Meter CW Fox Hunt are all scheduled for January 11.

Please see January 2017 QST, page 85, and the ARRL and WA7BNM contest web sites for details.



**CLASSIFIED****K8ABS ESTATE SALE**

SB104 \$310.00 SB604 plus AC power  
Supply \$225.00 SB230 \$500.00+

MFJ Versa Tuner II-969 300 Watt  
Asking \$185.00

Home Brew?? Collins Speaker Cabinet w/  
Ant Switch & SWR Meter built in.

Above is Jim's operating station W/ Manu-  
als MINT Asking \$950.00



Icom 706 & AH-4 Auto Tuner Asking \$870.00

Tenna Pyramid Phase III 13.8V / 10A Power Supply  
Asking \$50.00

Kenwood TM231A

Kenwood TW241A

Kenwood AT250 Tuner 100Watt

Also have handhelds, will be procuring chargers  
etc.

Contact Burt WB8EBS 1-906-774-8383 Have call-  
er ID & Voice Mail.



Space Available to push your stuff

## LINKS AND STUFF

*Under re-construction. Watch for the orange barrels*

*Delta County Amateur Radio  
Escanaba, MI  
[www.dcars.org](http://www.dcars.org)*

*Cooper Country Radio Amateur  
Dollar Bay, MI  
[www.ccras.net](http://www.ccras.net)*

### Area Repeaters

Escanaba 147.15+	100.0
	145.13- No PL
Wells 444.30+	No PL
Gladstone	
IRLP 4013 147.55 Smpx	100.0
Champion 146.82-	100.0
Cooks 146.70 -	110.9
GrdMarais 147.195+	No PL
Gwinn 146.64	100.0
Iron Mtn 146.85 -	No PL
Iron River 145.17-	107.2
Ishpeming 146.91-	No PL
IRLP 8993 443.50+	100.0
Manistique 146.79 -	No PL
Marquette 146.97 -	No PL
	147.27+ 100.0
	444.80+
	No PL
Menominee 147.00+	107.2
Newberry 146.61 +	No PL
	147.09+ 114.8
Republic 147.09+	No PL
Trenary 147.03 +	100.0
Wetmore 145.41-	100.0

### ARRL Affiliated Club Area Nets

**UP Net** 3921khz  
Daily 5pm EST  
Sunday Noon EST

**UP CW NET** 3590khz  
Sunday 7pm EST

**160 Net** 1895khz  
Everynight 0100UTC  
Dailey 0600UTC

**Midcars** 7258khz  
Daily 0730am EST  
0200pm EST

**Outhcars** Node 9614  
Saturday 0900am EST

**UP Echolink** Node 9617  
Sunday 8pm EST

**Delta County ARES**  
147.150  
Sunday 7pm EST

**Mich-A-Con Social**  
146.850  
Thursday 0630pm CST  
ARES follows

ARRL WEB PAGE: <http://www.arrl.org>

ARRLMICHIGAN: <http://www.arrl-mi.org/>

US REPEATERS: <http://www.usrepeaters.com>

Tropospheric Ducting Forecasts:  
<http://www.d/infocentre.com/tropo.html>

MICH-A-CON : <http://www.qsl.net/ka1ddb>

FCC Universal Licensing System: <http://wireless.fcc.gov/uls/>

QTH Com: <http://www.qth.com/>

QRZ <http://www.qrz.com/>

E Ham Net <http://www.eham.net/>

UP Skywarn: <http://kera-mi.net/skywarn/>

Band Conditons: <http://bandconditions.com/>

**ABOUT OUR CLUB....****Club Officers****President:**

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**(906) 774-5463**  
[tmartin@chartermi.net](mailto:tmartin@chartermi.net)

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**Scott Jarmusch, KA8TFF**

**Secretary:**

**Joe Ferris, KC9TQR**  
[irferris@borderlandnet.net](mailto:irferris@borderlandnet.net)

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**Radio License Exam Contact Persons:**

Mike Boileau: 906 563 1350  
 Terry Moriarity: 715 251 1670

**Activities:**

**Second Wednesday** of the month the Mich-A-Con Amateur Radio Club meets in the Dickinson Country Library at 7:00 P.M. Winter or 6:30 PM Summer

**Visitors and prospective members are always welcome!**

**Club Repeater:**

The Club maintains two repeaters which are located on Pine Mountain (Elevation 1650 ft) in Iron Mountain with tower and facilities provided by the Wisconsin Electric Power Co. The range of the 2 meter repeater is about 40 miles. The range of the 440 MHz repeater is about 25 miles. Both are under normal conditions, depending upon terrain.

**The Repeater Specifications:**

The 146.85 repeater is a Yaesu DR 1 digital and Analog repeater Frequency. 146.85 minus offset, 100 hz PL tone encode and decode Power 50 watts. The Controller is an Arcom RC 210 . It is also System Fusion capable.

. The 440 MHz repeater is a GE Master II 444.85, plus offset, 100 hz pl tone. 35 watts output. The Controller is a Arcom 210.

The 2 meter and the 440 can be linked. The repeaters share a Diamond dual band antenna at a tower height of 125 ft.

**We're on the Web!**

<http://www.qsl.net/ka1ddb/>

Previous editions of the Newsletter can be accessed by a link on the **news** page

**From Your Newsletter Editor**

Thank you to those contributors and critiques.  
 Welcome your articles - They make the Newsletter.

*For those not getting the Newsletter, it is because I have an incorrect email address. Please give me the correct address.*

The following is referenced from <http://www.dx-code.org>

### DX Code Of Conduct

I will listen, and listen, and then listen again before calling.

I will only call if I can copy the DX station properly.

I will not trust the DX cluster and will be sure of the DX station's call sign before calling.

I will not interfere with the DX station nor anyone calling and will never tune up on the DX frequency or in the QSX slot.

I will wait for the DX station to end a contact before I call.

I will always send my full call sign.

I will call and then listen for a reasonable interval. I will not call continuously.

I will not transmit when the DX operator calls another call sign, not mine.

I will not transmit when the DX operator queries a call sign not like mine.

I will not transmit when the DX station requests geographic areas other than mine.

When the DX operator calls me, I will not repeat my call sign unless I think he has copied it incorrectly.

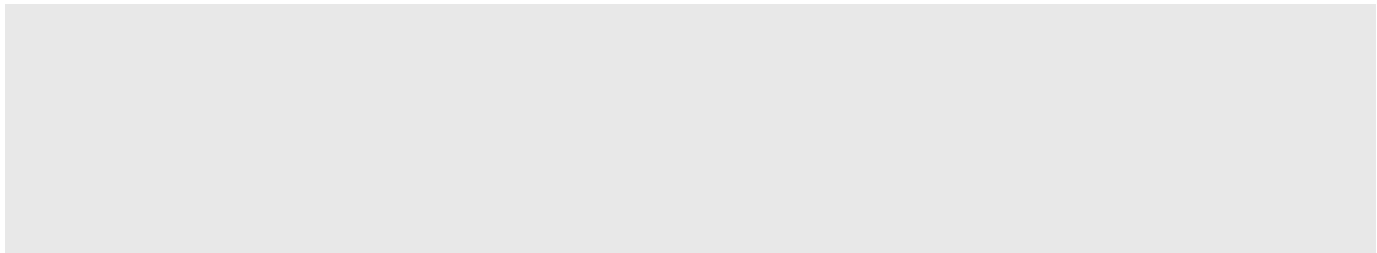
I will be thankful if and when I do make a contact.

I will respect my fellow hams and conduct myself so as to earn their respect.



**MEMBERSHIP**

Call Sign	Last Name	First Name	City	Phone	Email
WB8EBS	ARMBRUST	BURT	QUINNESEC	906-774-8383	<a href="mailto:wb8ebs@yahoo.com">wb8ebs@yahoo.com</a>
W8XBO	ARMBRUST	ED	IRON MOUNTAIN	906-779-5593	<a href="mailto:w8xbo@sbcglobal.net">w8xbo@sbcglobal.net</a>
KC9KVP	BAKER	BETH	NIAGARA		
KB9AVX	BAKER	SCOTT	NIAGARA	715-251-1944	<a href="mailto:kb9avx@yahoo.com">kb9avx@yahoo.com</a>
KB8SBP	BERTOLDI	BILL	KINGSFORD		
W8BEY	BEY	DANA L.	KINGSFORD	906-774-7937	<a href="mailto:lst797@charter.net">lst797@charter.net</a>
K8DDA	BRAY	MIKE	VULCAN	906-201-1550	<a href="mailto:mikebray@chartermi.net">mikebray@chartermi.net</a>
KE9L	CASWELL	SKIP	IRON MOUNTAIN	906-774-3371	<a href="mailto:acaswell4238@charter.net">acaswell4238@charter.net</a>
KC8QZG	DAKE	DAVE	NEWBERRY		
KC9ZBC	DOLATOWSKI	SCOTT	GOODMAN	715-633-1006	<a href="mailto:kc9zbc@live.com">kc9zbc@live.com</a>
KC9TQR	FERRIS	JOE	FLORENCE	517-589-4386	<a href="mailto:jrferris@borderlandnet.net">jrferris@borderlandnet.net</a>
N9MBG	FRY	ED	PEMBINE	906-221-7307	<a href="mailto:efry@centrylink.net">efry@centrylink.net</a>
KG8NK	GEMBOLIS	LOUIS	ISHPEMING	906-485-5442	<a href="mailto:lgembolis@chartermi.net">lgembolis@chartermi.net</a>
KD8VTS	GRABOWSKI	DEBRA	CRYSTAL FALLS	906-284-2450	<a href="mailto:kd8vts@gmail.com">kd8vts@gmail.com</a>
KD8VTT	GRABOWSKI	WILLIAM	CRYSTAL FALLS		
KC8TH	HEYBOER	TOM	IRON MOUNTAIN	906-779-0481	<a href="mailto:heyboer.tom@gmail.com">heyboer.tom@gmail.com</a>
N8ATS	HOLMES	SAM	PEMBINE	906-322-8507	<a href="mailto:chopsam@centrylink.com">chopsam@centrylink.com</a>
KA8TFF	JARMUSCH	SCOTT	IRON MOUNTAIN		
KB9EMU	KNUTSON	WILLIAM	FENCE	715-336-2250	<a href="mailto:dknutson54@gmail.com">dknutson54@gmail.com</a>
KB8ETK	KOMBLEVICZ	JOSEPH	IRON MOUNTAIN	906-774-4094	<a href="mailto:kombleviczj@charter.net">kombleviczj@charter.net</a>
W8JWN	MARTIN	THOMAS	IRON MOUNTAIN	906-774-5463	<a href="mailto:tmartin@chartermi.net">tmartin@chartermi.net</a>
WA8FXQ	MEYERS	BOB	VULCAN	906-396-0119	<a href="mailto:meyersb@uplogon.com">meyersb@uplogon.com</a>
KC8LRP	MEYERS	MARGE	VULCAN	906-396-8913	<a href="mailto:mgmeyer@uplogon.com">mgmeyer@uplogon.com</a>
N8TUM	MILLER	TIMOTHY	FLORENCE	715-696-6517	<a href="mailto:timmiller.up@gmail.com">timmiller.up@gmail.com</a>
K9TRY	MORIARITY	TERRY	NIAGARA	715-251-1670	<a href="mailto:kb9zer@yahoo.com">kb9zer@yahoo.com</a>
ND8M	PAUL	JARED	NORWAY	989-660-9535	<a href="mailto:jaredpaul@me.com">jaredpaul@me.com</a>
KD8SZA	PAUL	MICHELLE	NORWAY		
KC9NFT	PERRON	BARRY	FLORENCE	715-696-6175	<a href="mailto:bperron2@netzero.com">bperron2@netzero.com</a>
KC8JRI	REED	GORDY	IRON MOUNTAIN	906-779-1254	<a href="mailto:gordyreed@charter.net">gordyreed@charter.net</a>
K8ABS	RIVERSIDE	JIM	IRON MOUNTAIN	906-458-0773	<a href="mailto:jriverside@charter.net">jriverside@charter.net</a>
W8IFI	RYE	JIM	CRYSTAL FALLS	906-875-3582	<a href="mailto:jimrye@up.net">jimrye@up.net</a>
KG9Y	THOMAS	DAVE	NIAGARA	715-251-1393	<a href="mailto:ke9y@arrl.net">ke9y@arrl.net</a>





**MICH - A - CON**

**Please remit dues to:**

**Debbie Garbowski, KD8VTS  
203 Camp 5 Road  
Crystal Falls, MI 49920**

Name: \_\_\_\_\_

Call Sign: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Email Address: \_\_\_\_\_

Phone: \_\_\_\_\_

ARRL Member? Yes \_\_\_\_\_ No \_\_\_\_\_

Please make check payable to: **Mich-A-Con ARC**

Annual dues for Full Membership -

Single \$20 \_\_ Family \$30 \_\_ Repeater Only \$10 \_\_

If family membership, please list additional:

Names: \_\_\_\_\_

Call signs: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Annual dues are Payable January 1st.

Dues for New Members are Pro-rated. Please remit \$1.67 per month for a Single membership or \$ .50 per month for a Family membership.