

# MICH-A-CON RF

**Iron Mountain, MI**

**FEBRUARY**

## Meeting Reminder: **Second Wednesday of Month**

Which is **February 11, 2015** at 7:00 PM at Dickinson Library.

Please be there and support the cause of Amateur Radio.

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## Words from the President

As I write these “Words”, the K1N Navassa Island Dxpediton is on the air! If you can't work them, you must be using an antenna buried under the snow! Even then, you might get them. No need to worry about the European wall for this one.

Deliberate QRM abounds as usual. I still can't understand why some “hams” get a kick out of doing that. I'm beginning to think that one of the major reasons for this is the exceptionally large spread that the Dxpeditons use. Is it really necessary for them to take up 20-30 Khz of certain bands? I know that no one owns a particular frequency but many established NETS and ordinary QSOs are interfered with during these events. Back in 1978, during a Clipperton Island Dxpediton, I received a phone call from a disgruntled ham in Texas at 1 a.m. because I jumped on his QSO on 40 meters. My KW to a 2 element beam buried his contact. Probably 80% of Dxers don't listen to the frequency for a rag chew before calling.

Right now, K1N is saying, “Listening 210 and up” and people are still calling on his transmit frequency. Of course many “cops” are shouting “UP, UP, you idiots”. I really doubt if this will ever change. Anonymity of the “cops” of course allows for this. At times guys even use a call that belongs to someone else to QRM the frequency. Of course, this is illegal. Without active Official Observers, they probably won't be caught.

This Dxpediton has also given me the opportunity to test various antennas to see how effective they are receiving K1N. My vertical is 3 S-units below my tribander at 40 feet. My 40' tribander is 1-2 S-units below my 4 element SteppIR at 72 feet. This is expected because the higher antenna is “shooting over” the Caribbean.

Have fun working the Dxpediton and remember to obey the DX Code of Conduct! The new year has gotten off to a very, very cold start! These -37 chill factor temperatures could drive one to either drink, or to a much warmer climate. HI!

This past weekend, January 3-4, I kept warm by operating in the ARRL RTTY Roundup. The shack was quite toasty, with two amplifiers running. I actually operated in short sleeves for a few hours.

Conditions weren't the best on but 10 meters was open for the entire weekend. I had 93 contacts on 10. The most in a contest in many years.

Ten is a strange band. Today, January 8, the A was 38 and the K was 3. SFI was 137. I saw ZL1ALZ in New Zealand spotted on CW at 28.010 on the cluster. I gave him a call using 100 watts and he came back to me on the first call. This was at 2:47 p.m.! With an A that high, I didn't think I could hear anything that far away on 10. Usually, our path is only to South America, or the Caribbean.

Another oddity in the RTTY test was working Nunavut, a territory of Canada. It broke off from the Northwest Territories in 1999. This contact gave me a needed multiplier. The only two I missed in Canada were the Yukon and Northwest Territories.

My equipment and antennas worked great during the contest. I had no RFI issues in the computer and N1MM Logger+ was flawless.

The only negative during the contest was that I didn't get to work the whole 24 hours. I had to go to a funeral visitation on Sunday afternoon. So, I only had 22.5 hours. I will find out later if this made a big difference in my ranking in the Great Lakes Division.

Big DX coming to our area in the weeks ahead! Iran(EP6T)and Navassa Island (K1N) will be on the air around January 16<sup>th</sup>. I need Iran on the low bands and K1N on everything but 20 SSB. I last worked them in 1992. It will be fairly easy to work Navassa. It is 2,034 miles south of Iron Mountain in the Caribbean.

Good luck to all and 73,  
Tom W8JWN

***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.*

*Please see me contacts for the other UP Amateur Radio Clubs. Provides a way of sharing info, classifieds, ham fests, etc.*

**The club dinner is scheduled for March 14th at Bartoletti's in Aurora at 6 for cocktails and dinner at 6:30. XYLs and YLs are invited. Reservations by March 1st.**

***MICH-A-CON AMATEUR RADIO CLUB******MINUTES OF JANUARY 14, 2015 MEETING***

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

**Secretary Report**

Minutes of the  
December 10th meeting were read and approved.

**Treasurer Report**

Balances as of January 12, 2015:  
Checking - \$2.57  
Regular Savings - \$1902.05 of which \$1500.25 is in the Trailer Fund.  
Repeater Savings - \$249.49  
Petty Cash - \$17.00

**Repeater Report**

Bob Meyers reported that a band pass filter has been installed on the two meter repeater. Since then, the noise level has improved. A switching power supply belonging to WE Energies is thought to be putting noise onto all of the feed lines. According to Skip Caswell, WE Energies has a battery charger for their emergency generator at the site.

Yaesu has accepted our order for the new repeater. The cost is \$500 and is expected to arrive by the end of February. Several club members made donations toward the cost of the repeater: Bill & Debbie Grabowski (\$50); Bob Meyers (\$100); Terry Moriarity (\$100); Sam Holmes (\$100); Barry Perron (\$100).

Dave Thomas discussed placing a 220 MHz repeater at our repeater site. Mike Boileau has one available.

**Old Business**

The trailers at Mountain Motors cost between \$350 and \$600. That is more than we want to invest at this time. We will keep looking.

The national radio has been passed along to the ham from Three Lakes, as discussed at the January meeting.

President Tom Martin reported that he has not received any new requests for QSL cards or certificates from our Veterans Day special event activity.

The Negaunee Swapfest is on Saturday, February 7. Dave Thomas will check on getting a table. Burt Armbrust will check the van for items the club can sell. Members should contact Dave if they have items to sell. Ten percent of the sale price will go to the club.

Dave Thomas and Terry Moriarity will be going up to the Emergency Communications Center, at the courthouse. They have a few things to bring up there.

A club social gathering, at Bartolettis in Aurora, for club members and spouses/guests is planned for March. It will be held on Saturday, March 7<sup>th</sup> or 14<sup>th</sup>. Tom Martin will make the arrangements.

**New Business**

Amateur radio license exams can be held any evening that three Volunteer Examiners can make it. Contact Mark Lewis or Mike Boileau to make arrangements.

Tom Heyboer was congratulated on the fine work he is doing on the club newsletter.

Don and Kathy Falls have a piece of antenna equipment to donate to the club. It won't fit our tower, but we might be able to sell it.

The 50-50 drawing was won by Tom Heyboer, who donated his winnings back to the club. The club treasury gained \$96.

### Adjournment

The meeting was adjourned at 7:30 p.m.

### For the Good of the Order

Attendees reported on their recent activities.

Submitted by Joe Ferris

### Attendees

Tom Martin, WAJWN - President  
Scott Jarmusch, KA8TFF - Vice President  
Burton Armbrust Sr., WB8EBS - Treasurer  
Joe Ferris, KC9TQR - Secretary  
Terry Moriarity, K9TRY  
David Thomas, KG9Y  
Sam Holmes, N8ATS  
Gary Schafer, K4FMX  
Barry Perron, KC9NFT  
Tim Miller, N8TUM  
Skip Caswell, KE9L  
Bill Bertoldi, KB8SBP  
Bill Grabowski, KD8VTT  
Debbie Grabowski, KD8VTS  
Bob Meyers, WA8FXQ  
Tom Heyboer, KC8TH  
Dana Bey, KD8POR  
Scott Dolatowski, KC9ZBC (and son Shelby)  
Herb Pahlow, KD9SY (and Helen)  
Michelle Paul, KD8SZA  
Jared Paul, ND8M

# ARRL MICHIGAN SECTION NEWS

**Greetings to the Hams of Michigan:** (Nothing to Report at this Time)

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## Dales Words for February 2015

Greetings everyone,

I trust that everyone is now over the "withdrawal" from the final contacts of the Centennial QSO Party, and solidly into the normal routine for a new year. Welcome to this February 2015 edition of "Dale's Tales".

The recent January ARRL Board meeting went well and I am sure most of you have now read some of the meeting highlights in various bulletins and the ARRL Letter©. The Headquarters staff is reasonably close to having their routines back to normal after the Centennial Year, and they are looking forward to the time when all of the various Centennial awards are complete. I think we all are anxious to see the "Final Results" of 2014's great ham radio events.

### Events from ARRL Annual Board Meeting:

As your Great Lakes Division Director, I believe it important for me to report on several of the events from the ARRL Annual Board Meeting. Some of the more interesting actions at the meeting related to selecting new members to the CEO Search Committee that is working on guidelines for choosing a new CEO to replace Dave Sumner K1ZZ when he eventually elects to retire. Much is going into this advance planning to insure the best interests of Amateur Radio are served in selecting this new individual when that time eventually comes. The Board also held an extensive discussion of IT projects underway at Headquarters and improving the tracking and prioritization of those projects. There is currently a large demand on the IT staff for a number of innovative projects. We made some minor changes to the Articles of Association to refine some qualifications and clarify the definitions of conflicts of interest.

Other items included a change to allow all DXCC Card Checkers to check cards for 160 meters with new guidelines which will be developed and made available to them. Some DXCC rules were revised to improve some definitions and provide new guidelines about remote station operation.

The Board created a committee to examine the prospects of revitalizing VHF/UHF contesting and updated some of the VHF/UHF contesting rules. The HF Band Planning Committee was instructed to add RTTY and data privileges for Technicians and Novices to the proposed new band plan and send the potential changes out to the ARRL membership for comment.

Several worthy amateurs were selected to receive some of Amateur Radio's highest honors and lastly, the new ARRL 2015 committee members were appointed by President Craigie.

Full Board Minutes are available for your review at: <http://www.arrl.org/board-meetings>.

Congratulations to Michigan Section Manager Larry Camp WB8R and his team for their successful passage of MI Public Act 556, codifying "PRB-1" onto Michigan law. Michigan Governor Snyder signed PA556 on January 15. The Act also calls for the establishment of an advisory group to assist in resolving issues. The legislative process involved overcoming objections proffered by some community associations who eventually became full supporters of the bill.

### Monthly comments from our Great Lakes Div. Vice Director, Tom W8WTD:

Before the Board Meeting in Connecticut in January, I got to visit the ARRL Lab at HQ, and while there, saw their historical display of a spark-gap transmitter. It was amazing to think about how that came about, and what it took for experimenters to come up with something like that. Ham radio has always been about experimenting, and taking something known and doing something different with it.

And that's what is still exciting about ham radio today. As I travel around the Division, I hear of all kinds of new projects and people trying new things, all to do more with radio. I have my own favorites, like DMR and remote

control. There are many others, including APRS, Mesh networks, etc. I love to hear what people are doing and I try to share stories to encourage others who are thinking about those things.

In the radio room at QCEN (the Queen City Emergency Net,) where I am a member, is a display of a home-made radio from the 1950s. It's a six-meter AM transceiver, along the lines of what would later be the Gonset "Gooney Box" or the "Benton Harbor Lunchbox." It came about because the club wanted its members to be on six meters for local communication, and the only rigs available were pretty high priced, even for the day. So, they designed a simple circuit, using off-the-shelf components, and made a "kit" of sorts, so that many club members could participate. Those radios provided the club with good, inexpensive communications for many years. It's still the same. Arduino technology is providing hams with new ways to control things. Individual hams still sit down to design circuits to do just what they need in a particular installation, something custom-made just for their own project. Many hams take existing products and combine them with other products to make what they need. No sense designing radios, since the precision manufacturing techniques make far more sophisticated radios than we could make at home. But what you do with it --that's key. A low-cost Chinese-built radio that is combined with an old cell phone, tying in to its GPS, makes a great APRS tracker. And there are many others you could add to the list.

The hamfests are just starting for the year, and I look forward to meeting many more of you in 2015. I'm anxious to discover and share news of the many technical innovations that hams in this Division are working on.

73, Tom W8WTD,  
Vice Director, Great Lakes Division

**Hamfesting:** Here is the current Great Lakes Division ARRL Sanctioned Hamfest Schedule for the next few weeks. These swaps have received their sanctioning approval from ARRL HQ at the time of this publication.

**Feb 7 - HARA, in Negaunee, MI - WB8R**

Feb 14 - Cherryland, in Traverse City, MI - WB8R

Feb 15 - Mansfield, in Mansfield, OH - N8SY - WA8EFK

Feb 15 - Livonia, in Livonia, MI - WB8R

Mar 7 - Cave City, in Cave City, KY - KY4Z

Mar 14 - Crossroads, Kalamazoo, MI - WB8R - WA8EFK

Mar 15 - TMRA, Toledo, N8SY - WA8EFK

Mar 28 - MOVARC, Gallipolice, OH - N8SY

A note about hamfest attendance by your ARRL elected officials. We want to be at your events and we strive for insuring that the ARRL is properly represented at every ARRL Sanctioned Hamfest. Conflicts can arise, such as hamfests which might occur on the same day. It is always a good idea for your hamfest chairman to contact the Section Manager, Vice-Director or Director early in the planning stages to insure his attendance at the activity. This will allow time to prepare for alternate representation in the event of time conflicts.

**Recent Club Visits:** Thanks to the Garden City ARC for hosting a Director visit at their January Club meeting. Your Director, Vice Director and Section Managers are available to visit local radio clubs and give presentations about ARRL and what is happening in the Section or Division. Please feel free to invite any of us for an ARRL Night at your club. Most of the talks are prepared in a video presentation format and can include a Q&A session as well. Advance scheduling really helps and gives you an opportunity to publicize the event. See pages 15 & 16 of a recent QST for contact information.

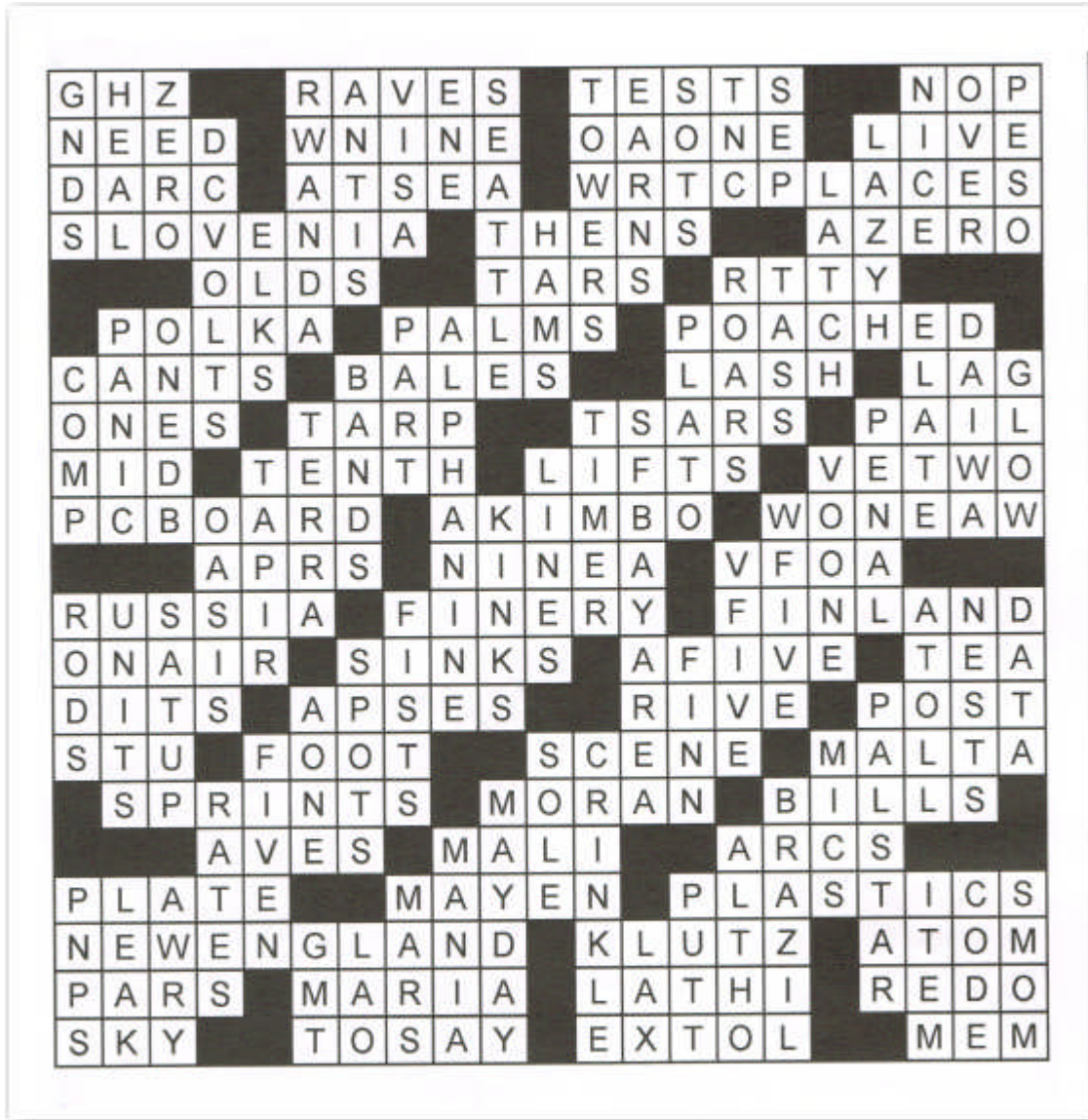
73, see you on the bands.  
Dale Williams WA8EFK  
Director, Great Lakes Division



# News

Used with Permission from Chris Codella, W2PA:

The Solution to January's Cross Word Puzzle:



# 2015 Michigan QSO Party

**What?** Michigan QSO Party

**When?** April 18<sup>th</sup>, 2015  
16:00z (18<sup>th</sup>) to 04:00z (19<sup>th</sup>)

**Where?** 10 thru 80 Meters (CW & SSB)

**Why?** Just Have Some Fun!!!!

- Chance to get on the air
  - Single Op, Multi Op, Mobile, EOC
  - Be the station others want to work
  - Maybe activate a rare county?
- Excellent Club Activity
  - Reason to get together as group
  - New "EOC" station category
  - Excellent Training opportunity!
  - Get new members on the air!
  - Friendly Competition

Let's all help make Michigan "radio-active" on the 18<sup>th</sup> of April!!!!

**Rules & More Info:** <http://www.miqp.org/>

*Sponsored By: The Mad River Radio Club*





Feb 7 Ham Fest:











# CLASSIFIED

## K8DDB Items For Sale

Prices as of January 29, 2105

All prices are negotiable, items sold "as is", shipping is not included  
(I would prefer to sell the bulky items locally)

Cell phone: (906) 221-1550 or Email: mikebray@chartermi.net

### Radio Gear:

- Elecraft K3 Transceiver (serial # 5093 purchased 1/11/2011) – 100 watts, w/ATU, general coverage Rx module, filters for - 6 khz, 400 hz, 250 hz -includes manuals, Heil Proset-K2 boom headset for the K3/K2 (Heil iC element) and book "The Elecraft K3" by Fred Cady.  
\$1,999 FIRM
- Ten- Tec Centurion Model 422 Linear Amp – Tubes have very few hours on them as I operate primarily QRP - (includes manual)  
Asking \$990
- Viking 6n2 Transmitter  
Asking \$19
- Regulated CB Power Supply  
Asking \$5

### Test Equipment:

- RCA Type WO-33A Oscilloscope  
WG-349A Direct/Low Capacitance Probe  
Instruction manual  
Asking \$9
- B&K Model 162 Transistor/F.E.T. Tester  
With probe and manual  
Asking \$39

### Miscellaneous:


- Scanner - Uniden Bearcat BC-210XL 18 channel scanning radio w/owner's manual and 1996 Radio Shack Police Call Plus Frequency Guide for Michigan and Ohio - Asking \$25
- CB Radio - Old 1970s Radio Shack Realistic TRC-55 console CB (23 channel AM) with digital clock (which no longer works) but its set at the perfect time for CB, 10:04 good buddy! Comes with hand mic and nostalgia of "Smokey and the Bandit" days - Asking \$25

**UP Hamfest Information**

## U.P. Hamfest 2015


### Quick Reference Guide

<p><b>Date –</b> Saturday, August 1<sup>st</sup> 2015</p> <p><b>Time –</b> 9:00 am to 2:00 pm EDST</p> <p><b>Where –</b> Bay de Noc Community College 2001 N. Lincoln Rd. Escanaba MI 49829</p> <p><b>Coordinates –</b> N45°46.226 W087°05.087</p>	<p><b>Swap Info –</b> First table is Free. Each additional table \$5.00</p> <p><b>Setup –</b> Friday from 6 pm to 9 pm and Sat from 7 am to 9 am</p> <p><b>Talk In –</b> 147.150 (+600 / 100 PL)</p> <p><b>Web Site –</b> <a href="http://dcars.org/u-p-hamfest/">http://dcars.org/u-p-hamfest/</a></p>
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#### Events

- U.P. Net Meeting
- QCWA Chapter 219 Meeting
- Upper Peninsula Amateur Radio Repeater Association (UPARRA)
- U.P. ARES Meeting
- Vendors & Swap
- Food



**Thunder Bay  
Amateur Radio  
Club**

Find us on the web at:  
<http://ThunderBayARC.org>



**Alpena's 2nd Annual Swap meet!**  
**October 10th, 2015**  
**9:00 AM until Noon**

See <http://ThunderBayARC.org> for updates and details on the Swap meet.

Make a Fall trip to Alpena, Michigan. Take in a great Swap and see some of the other sites and events in the Alpena area on that weekend.  
<http://lighthousefestival.org/> <http://www.alpenashipwrecktours.com/> <http://thunderbay.noaa.gov/>



# Amateur Radio Swap

Sponsor: CCRAA & KCRA

Date: May 9<sup>th</sup>, 2015

Time: 0900 – 1500hrs

Location: Chassell VFW Post 6507  
42103 Wilson Memorial Dr., Chassell, MI

Talk-in Freq: 146.880 PL-tone 100 hz or  
147.315 PL-tone 100 hz

Admission: \$3 and 12 and under “Free”

Door Prizes & Raffle

Tables( 8 foot ): \$10 each

Refreshments & Food Available


Dealers/Vendors set-up 0800hrs, Reserve Tables  
ASAP

POC: Howard Klann(KD8ABP)

906-337-0234

ccraaclub@gmail.com

**LINKS:**

ARRL WEB PAGE: <a href="http://www.arrl.org">http://www.arrl.org</a>  ARRL MICHIGAN: <a href="http://www.arrl-mi.org/">http://www.arrl-mi.org/</a>  US REPEATERS: <a href="http://www.usrepeaters.com">http://www.usrepeaters.com</a>  MICH-A-CON : <a href="http://www.qsl.net/ka1ddb">http://www.qsl.net/ka1ddb</a>  Tropospheric Ducting Forecasts: <a href="http://www.d/infocentre.com/tropo.html">http://www.d/infocentre.com/tropo.html</a>   <a href="http://www.dx-code.org">http://www.dx-code.org</a>	FCC Universal Licensing System: <a href="http://wireless.fcc.gov/uls/">http://wireless.fcc.gov/uls/</a>  OTH.COM: <a href="http://www.uth.com/">http://www.uth.com/</a>  QRZ.COM: <a href="http://www.urz.com/">http://www.urz.com/</a>  Ehamnet.com: <a href="http://www.eham.net/">http://www.eham.net/</a>  U.P. Skywarn: <a href="http://kcra-mi.net/skywarn/">http://kcra-mi.net/skywarn/</a>
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*Delta County Amateur Radio*  
 Escanaba, MI  
[www.dcars.org](http://www.dcars.org)

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

*Keweenaw County Repeater Ass.*  
 Hancock, MI  
[www.kcra-mi.net](http://www.kcra-mi.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

### Wisconsin Repeaters

Abrams	146.835 -	107.2
Crivitz	145.47 -	107.2
Egg Harbor	146.73 -	107.2
McAllister	146.88 -	136.5
Green Bay	147.12 +	107.2
	147.27 +	107.2
	146.685 -	107.2
	145.49 -	100.0
Sister Bay	147.18 +	No PL
Sturgeon Bay	147.21 +	107.2

### ARRL Affiliated Club Area Nets

<b>UP Net</b>	3921khz
Daily	5pm EST
Sunday	Noon EST
<b>UP CW NET</b>	3590khz
Sunday	7pm EST
<b>160 Net</b>	1895khz
Everynight	0100UTC
Dailey	0600UTC
<b>Midcars</b>	7258khz
Daily	0730am EST
	0200pm EST
<b>Outhcars Node</b>	9614
Saturday	0900am EST
<b>UP Echolink Node</b>	9617
Sunday	8pm EST
<b>Delta County ARES</b>	147.150
Sunday	7pm EST
<b>Mich-A-Con Social</b>	146.850
Thursday	0630pm CST
	ARES follows

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

Tom Martin, W8JWN

(906) 774-5463

[tmartin@chartermi.net](mailto:tmartin@chartermi.net)**Vice President**

Scott Jarmusch, KA8TFF

**Secretary:**

Joe Ferris, KC9TQR

[irferris@borderlandnet.net](mailto:irferris@borderlandnet.net)**Treasurer:**

Burt Armbrust, WB8EB

(906) 774-8383

[Wb8ebs@yahoo.com](mailto:Wb8ebs@yahoo.com)**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

**Activities:**

**Second Wednesday** of the month the Mich-ACon 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 GR Master Pro, 40 watt output.

The 440 MHZ repeater is a GE Master Pro, 80 watt output.

The repeaters share a Diamond dual band antenna at a tower height of 125 ft.

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
KD8GHG	AHO	ROGER	QUINNESEC	906-774-3552	rogeraa@chartermi.net
N8WQG	ANDERSON	LE ROY	CRYSTAL FALLS	906-265-3960	<a href="mailto:n8wgg@fast-air.net">n8wgg@fast-air.net</a>
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	w8xbo@sbcglobal.net
KC9KVP	BAKER	BETH	NIAGARA		
KB9AVX	BAKER	SCOTT	NIAGARA	715-251-1944	<a href="mailto:kb9avx@yahoo.com">kb9avx@yahoo.com</a>
KD8POR	BEY	DANA L.	KINGSFORD	906-774-7937	<a href="mailto:lst797@charter.net">lst797@charter.net</a>
W9MB	BOILEAU	MIKE	NIAGARA	906-563-1350	<a href="mailto:w9mb@uplogon.com">w9mb@uplogon.com</a>
K8DDB	BRAY	MIKE	VULCAN	906-563-7020	<a href="mailto:mikebray@chartermi.net">mikebray@chartermi.net</a>
KC9SBY	BROSCHEART	FRED	NIAGARA	715-251-1423	<a href="mailto:broschart.fred@gmail.com">broschart.fred@gmail.com</a>
KE9L	CASWELL	SKIP	IRON MOUNTAIN	906-774-3371	<a href="mailto:acaswell4238@charter.net">acaswell4238@charter.net</a>
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