

MICH-A-CON RF

Iron Mountain, MI

March

Meeting Reminder: **Second Wednesday of Month**

Which is **March 12, 2014** 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

** Someone said that a call like WIAW/x improves one's signal strength by 10 dB, and I believe it. :)*

** The past week was a really different ham radio experience.*

** I never would have guessed before the first of the year that this operating event would have generated such interest around the world. I expected some interest but nothing like this.*

The above comments came from Michigan operators after the completion of Michigan's participation in the ARRL Centennial QSO Party from February 18-25.

Obviously, Michigan hams enjoyed the activity. I operated on 160-10 meters, using CW, SSB, and RTTY. I made over 2400 contacts. It was a blast!

It's too bad that we didn't have more stations from the U.P. involved. Duane, K8AO, from Gladstone and I were the only ones out of 50 operators in the state to participate.

Highlights from my operation include making 537 contacts on 160 meter SSB, CW, and RTTY; having 102 RTTY contacts with Japan in an hour and a half on 10 meters, and being jammed on 20 meter SSB for an hour! Some idiot was playing music, another was sending RTTY on top of me, and others put a carrier on my signal. I ignored it all! One ham made a comment on the cluster that I had *cojones* to operate through all of that nonsense. I wasn't going to let a few IDIOTS ruin my time at the mic!

One thing I learned from this experience is that my CW skills need honing. I had a rough time copying a lot of calls. Noise on 160 meters was a big problem, until I put up my receiving loop the second night. Also, I have always had a problem with "H" and "S" sent at 26-30 wpm.

The Michigan contingent made 28,297 contacts for the week. Not bad considering the poor propagation and bad weather across the state.

A big TNX to Randy, AA8R, for coordinating the Michigan group and handling the ARRL submissions.

Michigan's next appearance in the event will be in October.

r.

Hope to see you all at the March Meeting.

73.

Tom W8JWN

From your New Newsletter Editor:

Thank you to those contributors and critiquers.

Correction Noted for Single dues is \$20 not \$10.

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

Secretary Report

Minutes of the January 8th meeting were read and approved.

Treasurer Report

Balances as of ---February 1, 2014:

Checking - \$19.64

Regular Savings - \$ 2,351.39 of which \$ 1,851.62 is in the Trailer Fund.

Repeater Savings - \$ 1042.44

Petty Cash - \$ 19.00

Repeater Report

*The repeater has been a bit rough, to the south, this appears to be an antenna issue. Otherwise, the repeater has been running okay.

*Burt Armbrust has acquired a stand-off as a donation from GM Communications.

*No decision has been made, yet, on acquiring a new antenna for the repeater. One has been located in Minneapolis/St. Paul. The maker has a special deal for clubs. Terry Moriarty may know someone who could transport it.

Old Business

*The two meter net has continued to meet. There have been 13 to 15 participants, lately. The net will continue to meet every Thursday at 6:30 pm on the 146.850 MHz repeater.

*Burt Armbrust reported that the jumpers are still a work in progress.

*Dave Thomas has filed the necessary paperwork in application for the Emergency Coordinator (EC) position for Dickinson County. It is not known when his application will be approved. If he is approved, Dave would like to have an ARES net that is separate from the Thursday night social net already operating.

*Herb Pahlow thanked the club members who have offered assistance in getting his antenna in the air. At this point, he still has some issues to resolve. Herb stated that he would still like to get an antenna up when the weather breaks.

*The ARRL Centennial QSO Party is continuing. Several Mich-A-Con ARC members have been working the W1AW/portable stations that are on-the-air. Wisconsin (W1AW/9) and California (W1AW/6) are on now. Next week, Michigan (W1AW/8) and Florida (W1AW/4) will be in operation. President Tom Martin will be operating as a W1AW station, during the week. He will be active mainly on RTTY and CW. Look for him, when you are on the HF bands. If you miss them now all of the states will be on a second time, later in the year.

*There has been a lot of intentional jamming and interference by hams who don't care for the Centennial QSO Party. This also seems to be a common occurrence with dxpeditions, lately.

New Business

*At the March meeting, Bill Bertoldi, advisor to the rockets club at Kingsford High School, will present a program on "Tracking". He will demonstrate how his students use radio to track their rockets, after

launch, so they can recover them. The techniques his club uses would be applicable to the Foxhunt activity we are planning.

Tom Heyboer has produced his first club newsletter since taking it over from Steve Skauge. Many highly positive comments were offered in praise of his work. Members were asked if they were all receiving the newsletter, now. Anyone not getting it should be sure to get added to the list. If anyone has anything they would like to get into the newsletter, or suggestions, they should contact Tom Heyboer or Tom Martin.

*It was noted that ARRL Field Day will be under discussion at the March meeting. Field Day will be on June 28-29, this year. The site and other details are to be determined.

*The Negaunee Swap Meet was reported to have been a good event. There seemed to be less gear for sale, but there were some reasonably priced good radios.

*Burt Armbrust brought handouts for a couple of upcoming hamfests. The Chassell Hamfest and Swap will be on April 26 (8:00 to 2:00 CDT), and the UP Hamfest will be on August 2 (8:00-1:00 CDT) at Bay de Noc Community College, in Escanaba.

Adjournment

The meeting was adjourned at 7:34 p.m.

For the Good of the Order

Attendees reported on their recent activities.

Submitted by Joe Ferris, Secretary

Attendees

Tom Martin, W8JWN - President
Scott Jarmusch, KA8TFF - Vice President
Burton Armbrust Sr., WB8EBS - Treasurer
Joe Ferris, KC9TQR - Secretary
Tom Heyboer, KC8TH
Skip Caswell, KE9L
Joe Komblevicz, KB8ETK
Terry Moriarity, K9TRY
David Thomas, KG9Y
Bill Grabowski, KD8VTT
Debbie Grabowski, KD8VTS
Sam Holmes, N8ATS
Michael Boileau, W9MB
Scott Baker, KB9AVX
Narry Perron, KC9NFT
Gary Schafer, K4FMX
Steve Hebert, KD8WAK
Herb Pahlow, KD9SY
Dana Bey, KD8POR
Chris Michaud, KD8UMN
Scott Dolatowski KC9ZBC (and son, Shelby)
Tim Miller, N8T

ARRL MICHIGAN SECTION NEWS

Greetings to the Hams of Michigan: January, 2014

- ARRL Board Requests Input on Digital Operations
- Space Station QSO Scheduled with Michigan School
- Tracking Progress in Working W1AW/p
- Dale's Tales for March
- Acting Chief of FCC Enforcement Bureau to be Appointed
- W1AW/4 Operating from Kentucky
- W1AW/8 will Operate from Ohio
- Ramblings
- Tentative Travel and Hamfest Schedule

+++ ARRL Board Requests Input on Digital Operations +++

At its January meeting the ARRL Board of Directors passed a motion to obtain thoughtful input from amateurs about digital operations in the HF bands. The basic purpose is to obtain information that could be useful in band planning for the future. The request for input can be read at <http://www.arrl.org/news/arrl-board-requests-member-comments-about-digital-modes>.

If you have any thoughts about how best to share our HF bands efficiently and fairly with current and future digital modes please respond to this request.

The deadline for providing input is March 31.

+++ Space Station QSO Scheduled with Michigan School +++

The International Space Station is scheduled to contact the Warren Consolidated Schools in Warren, MI. during the week of March 10 according to an announcement made by Debra Johnson, K1DMJ, Education Services Manager of the ARRL. The following background information was prepared by the school:

"The mission of the Warren Consolidated Schools (WCS) district, in partnership with families and community, is to achieve a level of excellence in teaching and learning which enables all students to become knowledgeable, productive, ethical, and successful citizens. To help meet that goal, WCS supports programs in Science, Technology, Engineering, and Mathematics (STEM), which give students a real hands-on experience in education.

"The Middle School Mathematics Science Technology Center [(MS)2TC] has been built on the Warren Consolidated Schools district's internationally successful high school, the Macomb Mathematics Science Technology Center (MMSTC). While the high school program integrates seamlessly mathematics, science and technology, the middle school program integrates mathematics, science and informational literacy (reading and writing) with technology infused into each area. Both programs provide students with real-world, project-based learning activities that challenge their thinking, broadens their understanding of the world, and stretches their knowledge base while meeting the developmental needs of the students they serve.

"The (MS)2TC student population consists of students from five different middle schools within the WCS district while the MMSTC student population draws from eleven different school districts within the county of Macomb in southeastern Michigan. Both schools serve a diverse community of students who come from various socioeconomic and ethnic groups.

"The program goals of the MMSTC and (MS)2TC are to research, design, implement, and develop a powerful, unique learning environment and experience for high achieving students at the middle school and high school

level that integrates mathematics, science, English language arts, and technology. To achieve this goal we have created a curriculum framework based upon the Next Generation Science Standards (NGSS) which integrates mathematics and literacy standards mirrored in the Common Core State Standards (CCSS)."

+++ Tracking Progress in Working W1AW/p +++

Anthony, K8ZT, has developed a spreadsheet for keeping track of his Qs with the many W1AW portable stations that are operating during this ARRL Centennial Year. Anthony, who is Ohio Assistant SM for Educational Outreach, wanted an interactive means for doing this. The spreadsheet uses Google Docs. He offers this to anyone who would like to use it. It is, of course, free. To look into use of the spreadsheet, go to <http://goo.gl/xlO8gv>. There are no fees associated with using the spreadsheet and no additional software is needed.

Anthony wrote:

"To Get Started-

"Make a copy of this spreadsheet, so you can enter your personal data.

In its current state, you can only view it and not make changes. From the spreadsheet, Go to menu "File"... "Make a copy"

"There are three worksheet tabs-

- "1. Instructions (along with version number and update notes)
- "2. Data Entry
- "3. Summary

"Please share with members of GL Division and any other interested hams."

If you have any questions or comments concerning the spreadsheet, please contact Anthony at K8ZT@arrl.net directly.

Thanks, Anthony.

+++ Dale's Tales for March, 2014 +++

Greetings all.

So far, it's been a real hoot...operating as part of the ARRL's Centennial QSO Party. This event has been amazing. Handing out a few points to fellow hams in casual QSOs to operating contest style and sitting in the bottom of a pile-up has been a ball. This past week KG8P and I shared a time slot to operate W1AW/8 on 40 phone in Michigan, only to find a disastrous wideband noise covering the entire band. We did the best we could, often relying on a remote receive set up with W8PI so we could hear the incoming calls. I hope to report more on the interference in an upcoming column. We hope we can repeat the effort - without any interference.

You can now view the active Leader Board by checking into your Logbook of the World account, where you will find a link and instructions on how to log on to the Leader Board. LoTW serves as the data source, so reporting is based the up-load schedules of both operators, but you will have the current view of where you stand in both your QSOs with the W1AW portable, W100AW and W1HQ stations. Included is a list of QSOs, states and stations worked plus a list of states you still need.

The Centennial Points Detail will also provide a listing of all of your Centennial QSO Contacts. Check it out.

the meantime, see you on the bands.

73,

Williams WA8EFK
Vice Director, Great Lakes Division
wa8efk@arrl.org

+++ Acting Chief of FCC Enforcement Bureau to be Appointed +++

In a press release dated March 4, FCC Chairman Tom Wheeler announced action that should be good news to every serious radio amateur. The release announced the Chairman's "intent to appoint Travis LeBlanc as acting Chief of the Enforcement Bureau." The release goes on to point out that "Mr. LeBlanc previously served as a top deputy and senior advisor to California Attorney General Kamala Harris, overseeing the office's operations and activities involving complex litigation and policy matters on a broad range of issues such as technology regulation, telecommunications, high-tech crime, cyber-security, privacy, intellectual property and antitrust."

"The credibility of the Commission's rules depends on its enforcement activities," said Chairman Wheeler. Travis LeBlanc brings a wealth of experience with both federal and state law enforcement, most recently in the largest state Attorney General's office in the country. He is a savvy prosecutor who also knows how to secure agreements with private companies in order to advance the public mission," Chairman Wheeler added.

It has long been the opinion of ARRL that enforcement of FCC rules when these are violated serves as a great deterrent against future violations. Increased, visible enforcement of Amateur Radio rules would be highly desirable.

+++ W1AW/4 Operating from Kentucky +++

Tomorrow (as I write this on March 4), W1AW/4 will begin operating from Kentucky. As has been done with previous W1AW/p operations, Kentucky will be the home of this operation for seven days. Tim Totten, N4GN of Louisville is the organizer behind the station's appearance in the Bluegrass Commonwealth.

+++ W1AW/8 will Operate from Ohio +++

Beginning March 12, the H. P. Maxim Memorial Station (W1AW, in case you didn't know) will move upstream and across the Ohio River to operate from the Buckeye State for a week. Steve Bolia, N8BJQ will have the lead in this activity.

+++ Ramblings +++

As is true of Dale, WA8EFK, I have been having a ball on the air during recent months. Only part of this -- a rather large part -- is because of ARRL Centennial Celebration activities. The rest has been the result of fairly decent HF propagation. Don't get me wrong; propagation on HF hasn't been spectacular, but it has been fairly decent. Propagation on 6 meters continues to stink, but this comes as no surprise. About the only DX I've become aware of on 6M is between South America and southern US. Even this is very spotty.

Chasing W1AW/p as it moves from state to state is fun, of course. So far I've been able to make QSOs with it in each state from which it has operated with the exception of Delaware. For some reason, I was never operating when it was on a band with propagation to SE Ohio. Not to worry, though, W1AW/3 from Delaware will reappear November 26. I remain quite confident that a certificate for Worked All States W1AW portable will grace the walls of my shack next year.

Taking part in the QSO Party aspect of the Centennial Celebration has given me an opportunity I never expected. Because QSOing ARRL Board members nets a nice handful of points for people who make these contacts, a director (and others) are sought after. Simply getting on the air and making contacts with other amateurs is fun, but being a person at the business end of a pile-up can be even more fun. At least this is what I have found. A couple of times when I've had a reasonable length of time to spend QSOing, my frequency and the fact that I am a director have been spotted on the DX spotting clusters. This brought out a bunch of amateurs who wanted to put me in their logs. I am sure the pile-ups I generated are nothing like those of a major DXpedition, but they were a lot of fun. I still was working pile-ups that were impressive to me at the times I had to go QRT.

Add the pleasure of the Centennial Celebration to the decent HF propagation that has essentially been covering the world and there is a lot of good activity on the HF bands. If you have an operating HF station, but have not been on the air lately, now is a good time to fire it up and operate. If you have a station, but it needs antenna or other work to get it operational, now is a perfect time to plan the work that will get you back on the air. This winter will not last forever.

Finally, if you are limited by your license to working VHF, now is an excellent time to get in a licensing class or doing self study to earn a General Class or Extra Class license.

73,

Jim

+++ Tentative Travel and Hamfest Schedule +++

HAPPY NEW YEAR

Mar 15 - Crossroads Hamfest, Marshall, MI - WA8EFK, WB8R Mar 16 - TMRA Hamfest & Computer Fair, Perrysburg, OH - WA8EFK, N8SY Mar 22 - Mid-Ohio Valley ARC Hamfest, Gallipolis, OH - Ohio Cabinet Apr 5 - Lincoln Trail ARC's Hamfest, Elizabethtown, KY - K8JE, KY4Z Apr 5 - Portsmouth Radio Club, Portsmouth, OH - N8SY Apr 12 - Cuyahoga Falls ARC 60th Annual Hamfest, Cuyahoga Falls, OH - Ohio Cabinet Apr 12 - Letcher Co. KY ARC Hamfest, Whitesburg, KY - KY4Z Apr 13 - Milford Swap, Highland, MI -- QSL Checking -- WB8R Apr 26 - Jackson Co. ARC Hamfest, Jackson, OH - **N8SY Apr 26 - Hamfest Swap, Chassell, MI** Apr 27 - Athens Hamfest, Athens, OH - N8SY May 3 - Cadillac Amateur Radio & Computer Swap, Cadillac, MI -- WB8R May 10 - Big Sandy AR Hamfest, Louisa, KY - KY4Z **May 16-18 - Dayton Hamvention**(R), Trotwood, OH -- QSL Checking -- K8JE, WA8EFK, etc. Jun 1 - Chelsea Radio Swap 'n Shop, Chelsea, MI - WB8R Jun 7 - Princeton Kentucky Hamfest, Princeton KY - KY4Z Jun 7 - Fulton Co. RC Hamfest, Tedrow, OH - Ohio **Cabinet Jun 7 - Luce ARS Hamfest, Newberry, MI - WB8R** Jun 7 - IRA Hamfest, Hudsonville, MI - WB8R Jun 15 - Monroe Hamfest, Monroe, MI -- WA8EFK, WB8R Jun 21 - West Michigan Youth Club Hamfest, Lowell, MI -- WA8EFK, WB8R Jun 21 - Milford Hamfest, Milford, OH - K8JE, N8SY Jul 12 - 20/9 RC Tailgate and Hamfest, Austintown, OH Jul 17-19 - ARRL Centennial National Convention, Hartford, CT -- K8JE, WA8EFK Jul 20 - Van Wert Hamfest, Van Wert, OH -- Ohio Cabinet Jul 20 - PSC Meeting, Newington, CT -- K8JE Jul 21-22 - ARRL Board of Directors, Newington, CT -- K8JE, WA8EFK Jul 26 - 2014 CMARC Outdoor Hamfest, Lansing, MI -- WB8R Jul 27 - Portage HAMFAIR '14 - Randolph, OH -- WA8EFK, Ohio Cabinet **Aug 2 - UP Hamfest, Delta County ARS, Escanaba MI** Aug 10 - Central Kentucky ARRL Hamfest, Lawrenceburg, KY -- QSL Checking -- KY4Z Aug 17 - Warren Hamfest, Cortland, OH -- QSL Checking Sep 6 - Greater Louisville Hamfest, Shepherdsville, KY -- KY4Z -- QSL Checking Sep 13 - Richmond Hamfest, Richmond, KY - KY4Z Sep 28 - Cleveland Hamfest & Computer Show, Cleveland, OH -- QSL Checking -- N8SY Oct 4 - 'Vette City Hamfest, Bowling Green, KY -- QSL Checking -- WA8EFK, KY4Z Oct 5 - Conneaut ARC Hamfest, Conneaut, OH Oct 18 - Muskegon Color Tour Hamfest, Muskegon, MI - WB8R Nov 2 - Massillon ARC Hamfest, Massillon, OH -- QSL Checking - N8SY

Jim Weaver, K8JE
 Director, Great Lakes Division
 5065 Bethany Rd.
 Mason, OH 45040
 Tel. 513-459-1661; e-mail K8JE@arrrl.org

ARRL: The reason Amateur Radio Is
Members: The reason ARRL is

ARRL Great Lakes Division
Director: James E Weaver, K8JE
k8je@arrl.org

73 until next month, Larry, WB8R, ARRL Michigan Section Manager, wb8r@arrl.org

News

Welcome to ARRL's Centennial QSO Party

<http://centennial-qp.arrrl.org/index.php>

- Find out more about the Centennial QSO Party.
- Find out more about the ARRL Centennial.

How Results are Generated

- Information shown on this website for the Centennial Points Challenge is based on individual's contacts uploaded to LoTW.
- Information for all W1AW Portable Stations, W100AW and W1HQ is based on these station's logs uploaded to LoTW.

You can use this website to access the following information.

- **Call Sign Points** - Enter a call sign and lookup how many points it's worth for the Centennial Points Challenge.
- **Leader Board** - See who has the most points for the Centennial Points Challenge and the number of qualifying QSOs for W1AW Portable Stations, W100AW and W1HQ. If you are logged in using your LoTW log in credentials, your position will be the first record on the leader boards. If you're logged in and your call sign does not appear at the top of the leader board, you do not have any records of this type. The results are updated daily based on QSOs entered into Logbook of the World.
- **W1AW Portable Operations** - View the total number of QSOs for each W1AW portable operation. Select a W1AW portable station to view a chart of QSO totals by band and mode from that station's logs.
Log in above using your Logbook of the World user name and password or log on to LoTW and you'll be able to view these additional tabs.
- **My Scores** - See how many points you've earned toward the Centennial Points Challenge award and the number of states you've contacted towards a W1AW portable WAS award.
- **Centennial Points Challenge** - The ability to view contact details for each code is also available.
- **W1AW Portable and W100AW and W1HQ Stations** - You can view how many contacts you've worked with W100AW and W1HQ too. Details of your contacts by state is available, in addition to a list of states that you're missing. You can click on each of your missing states to see when the portable station for that state will be on the air next. There is also an option to view the schedule for all W1AW portable stations.
- **Score Details** - View detailed lists of all your contacts.
- **Centennial Points Challenge** - View a sortable report of how your Centennial Points Challenge award points were accumulated
- **W1AW Portable and W100AW and W1HQ Stations** - View a sortable report of how your points towards a W1AW portable stations were accumulated. You can also view a report of your contacts with W100AW or W1HQ.

Details of your contacts by state is available in addition to a list of states that you're missing. You can click on each of your missing states to see when the portable station for that state will be on the air next. There is also an option to view the schedule for all W1AW portable stations.

CLASSIFIED

Help Wanted:

Gene Meyers, 7741256, owner of GM Communications (Motorola). in Iron Mountain called me this morning.

He is looking for a **full time and part time equipment installer** & wanted to know if I knew of anyone looking for a job. He asked me to put the word out, he would prefer someone with two way radio experience. He will be advertising in the paper shortly.

Ride Wanted to Swap/ Hamfest

Contact: Herb (KD9SY) 715-324-5325
Will share expenses

For Sale

- Radio, 10M Mobile Rig
For more details
Contact: Herb (KD9SY) 715-324-5325

For Sale

RIGblaster rig to sound card interface. Get on all of the popular modes: PSK31, RTTY, JT65, etc. Wired for a Yaesu radio but can be changed, via internal jumpers, for any radio. Cables included. \$30

Timewave Technology PK232 mbx Multi Mode Controller for Packet, CW, RTTY, etc. Used very little. Recent factory upgrade. Manual and all cables. \$90

Alinco DR-140 2 meter mobile transceiver, audio cable wired for packet, if using the PK-232 listed above.\$45

Both for \$130

Contact: Tom Martin, W8JWN

UP Hamfest Information

Hamfest and Swap	Saturday, April 26, 2014 0900 – 1500 hrs
Location:	Chassell VFW Post 6507 42103 Wilson Memorial Dr. Chassell, MI
Admission:	\$2.00 12 and younger are "Free" Tables: \$10.00
Talk-in Freq:	146.880 PI-tone 100
Sponsor:	CCRAA & KCRA
POC:	Howard Klann (KD8ABP), 906-337-0234 ccraclub@gmail.com
Door Prizes	Dealers/Vendors set-up: 0800 hrs

Hamfest 2014	Saturday, August 2, 2014 0900 – 1400 hrs (EDST)
Location:	Bay de Noc Community College 2001 N. Lincoln Rd. Escanaba, MI 49829 Coordinates: N45 46.226 W087 05.087
Admission:	N/A First table free. Each additional table: \$5.
Talk-in Freq:	147.150 (+600 / 100 PL)
Setup:	Friday: 1800 – 2100 hrs Saturday: 0700 – 0900 hrs
Events:	U.P. Net Meeting QCWA Chapter 219 Meeting UP Amateur Radio Repeater Association (UPARRA) UP ARES Meeting Vendors & Swap Food

LINKS:

ARRL WEB PAGE: http://www.arrl.org	
ARRL MICHIGAN: http://www.arrl-mi.org/	FCC Universal Licensing System: http://wireless.fcc.gov/uls/
US REPEATERS: http://www.usrepeaters.com	QTH.COM: http://www.uth.com/
MICH-A-CON : http://www.Osl.net/kalddb	QRZ.COM: http://www.urz.com/
Tropospheric Ducting Forecasts: http://www.d/infocentre.com/tropo.html	Ehamnet.com: http://www.eham.net/
	U.P. Skywarn: http://kcra-mi.net/skywarn/

Delta County Amateur Radio
Escanaba, MI
www.dcars.org

Cooper Country Radio Amateur
Dollar Bay, MI
www.ccras.net

Keweenaw County Repeater Ass.
Hancock, MI
www.kcra-mi.net

**ARRL Affiliated Club
Area Nets**
UP Net 3921khz

Daily - 5pm EST
Sunday - Noon EST
UP CW NET 3590khz
Sunday - 7PM EST

Everynight 160 Net
1895 khz - Nightly
0100UTC

Midcars 7258khz
Daily 7:30am - 2pm ES

outhcars Node 9614
Saturday - 9am EST

UP Echolink Node 9617
Sunday - 8pm EST

Delta County ARES Net
Sunday - 7pm EST
147.150 MHz

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

ABOUT OUR CLUB.....**Club Officers**

President:

Tom Martin, W8JWN

(906) 774-5463

tmartine@chartermi.net

Vice President

Scott Jarmusch, KA8TFF

sjarmusch@yahoo.com

Secretary:

Joe Ferris, KC9TQR

iferris@borderlandnet.net

Treasurer:

Burt Armbrust, WB8EB

(906) 774-8383

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Heyboer.Tom@gmail.com**We're on the Web!**

See us at:

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

Previous editions of
Mich-A-Con RF 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.

Visitors and prospective members are always welcome!

3rd Saturday of every month, Saturday Morning Breakfast held on at 9:00 AM at the Holiday Kitchen restaurant on Stephenson Ave(US-2) in Iron Mountain .

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.

Please remit dues to :

Burt Armbrust, WB8EBS
693 Cliff St
Quinnesec, Mi. 49876

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.