



MICH-A-CON

Iron Mountain,
Dickinson County, Mich

April 2016

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

Which is **April 13, 2016** at **07:00 PM** at the Dickinson Library, Iron Mountain.

From The President

Words from the President

Isn't it a great April so far? The robins are buried in snow. The geese have no idea in which direction to fly. And, the snowblower is closer to the door than the lawnmower! Oh, well it's the U.P. and Northern Wisconsin. Got to expect it. Did you know that August is the only month where snow hasn't appeared in our area?

One good thing about the past several weeks is that I got country #339 (later back to #338 because KH5\K was deleted), when I worked VK0EK, Heard Island, on 40 RTTY on March 25th. It was the second day of their operation. I was especially pleased about this contact, not only because it was a new country and on RTTY, because I wasn't sure I was going to get them without my 4 element SteppIR. As you may remember, I lost it during a February RTTY contest. I still had my Mosley CL-33 at 38 feet but I lost it a few days before Heard Island came on. I found out that water in the coax and 800 watts don't mix! So, it was going to be on 30, 40. or 80 meters or bust. HI!

Surprisingly, they were quite loud on 40 and I got them on the second call. I also got them for the club on 40 CW. Jason, WK9U, got them for us on 30 RTTY as well. The club DXCC total is somewhere around 280 countries. I haven't compiled all of them yet.

In an effort to work FT4JA, Juan de Nova, on the high bands, I enlisted the assistance of Gary, K4FMX, and Jason to help me with the Mosley. Jason climbed the tower and found the burnt out PL-259 at the feed point. New coax was attached and it worked fine for one day until I applied 600 watts. Bam! No more beam. Now, when the weather is better, hopefully next week when it's a balmy 55 degrees, I'll drop the beam and see what's up. I did work them on 30 CW for a new band and mode contact.

After that project, I have to get working on the SteppIR at 72 feet. I have ordered and received new Buryflex coax for this beam. Now, to find a climber, or a bucket truck.

Inside this issue:

<i>From The President</i>	1
<i>Secretary Report</i>	2
<i>News.....</i>	4
<i>Mich QSO Party</i>	4
<i>LCWO</i>	4
<i>Ham to Rescue</i>	5
<i>Mich NPOTA</i>	6
<i>WiAW Schedule</i>	7
<i>Skywarn</i>	8
<i>UP Directory</i>	9
<i>ARRL Michigan Section News</i>	10
<i>ARRL Dales Tales</i>	13
<i>Propagation Bulletin</i>	15
<i>ARRL DX Report</i>	17
<i>Classified</i>	18
<i>Local Area Hamfest</i>	19
<i>Links and Stuff</i>	20
<i>About Our Club</i>	21
<i>DX Code Conduct</i>	22
<i>Membership List</i>	23
<i>Membership Form</i>	24

I hope that many of you had the chance to work VK0EK. I don't think it will be activated for another 20 years.

See you at the meeting on Wednesday at 7:00.

73,

Tom W8JWN

MICH-A-CON AMATEUR RADIO CLUB MINUTES OF March 19, 2016

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

Secretary Report

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

Treasurer Report

Balances as of March 9, 2016

Checking: \$3.05
Savings: \$2,035.87 (\$347.60 repeater)
Cash: \$17.00

Repeater Report

Bob Meyers reported that the two-meter repeater sounds good. It was also noted that Skip Caswell has donated an amplifier that should bring the output, on two meters, to about 80 watts.

Old Business

Jared Paul reported that his Echolink system has been running with no problems. He noted that it will be down, for a computer upgrade, during the week of March 17.

The club dinner, was held on February 27. It was well attended, and several favorable comments were made regarding it. We will try to schedule the same location and approximate date for next year.

The Upper Peninsula Veterans Memorial Park (Pine Mountain) has been reserved for Field Day, with the check written and paperwork completed. If we are to be 3A, we will need 3 HF stations, with VHF as a free extra station. This means we will need another radio and more operators.

Gary Schafer has checked-over the club TS-440 transceiver due to low-power complaints during the Veterans Day special event. The power has been boosted and should be satisfactory.

Discussion on whether the club should become an LLC was inconclusive. Due to a discrepancy over the expense and amount paperwork involved, the issue will require more investigation.



A motion to participate in the International Lighthouse Lightship Weekend, (August 20 -21) as a club activity, was approved unanimously. The club call (KC8VC) will be used and a distinctive QSO card will be designed and ordered. Sam Holmes reported that based on past experience we will need fewer than 100 cards. Bill Grabowski will contact the appropriate authorities to make the necessary arrangements.

New Business

President Tom Martin updated the list of Skywarn spotters and their locations from among those present. A copy of the list will go into the next newsletter.

Sam Holmes will place the standoffs, for relocating the two-meter antenna, at the repeater site. When the climbers from Marinette come up to do the work, the equipment will be there.

Adjournment

The meeting was adjourned at 7:40 pm. (Burt Armbrust/Skip Caswell)

For the Good of the Order

Attendees reported on their recent activities.

The 50/50 drawing was won by Skip Caswell. Twenty-five dollars went to the club treasury.

Submitted by Joe Ferris

Attendees

Tom Martin, W8JWN
Scott Jarmusch, KA8TFF
Burton Armbrust, Sr., WB8EBS
Joe Ferris, KC9TQR
Gary Schafer, K4FMX
Bill Grabowski, KD8VTT
Deb Grabowski, KD8VTS
Skip Caswell, K9EL
Bob Meyers, WA8FXQ
Jared Paul, ND8M

Barry Perron, KC9NFT
Sam Holmes, N8ATS
Ed Armbrust, W8XBO
Joyce Williams, Visitor

News

Announcing the 2016 Michigan QSO Party

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

Let's all help make Michigan "radio-active" on the 16th of April!!!!

Get your local EOC on the air and show the emergency management team how amateur radio can benefit their efforts!!!

The 2016 Michigan QSO Party, sponsored by the Mad River Radio Club, is from 1600Z April 16 until 0400Z April 17.

Stations may operate the full 12 hours. Phone and CW on 80/40/20/15/10 meters. Single-op, multi-op, and mobile categories. Work stations once per band and mode. MI-to-MI QSOs allowed. Work portables and mobiles again as they change county, state or province. Exchange QSO number and location (county for MI stations, state/province or "DX" for others).

Suggested frequencies: CW-3545, 7045, 14045, 21045, 28045; Phone-3825, 7200, 14250, 21300, 28450. One point per phone QSO, two points per CW QSO. Count multipliers once per mode.

Multipliers are MI counties for all entries, plus states, provinces and "DX" for MI entries only. Final score is total QSO points times total multipliers.

Submit logs no later than 30 days after the contest. Electronic logs in Cabrillo format are submitted via the Log Submittal page on the MiQP web site <http://www.miqp.org/submitLogFileMiQP.html>. Mail paper logs with summary sheets to: Mad River Radio Club, c/o Dave Pruet, 2727 Harris Road, Ypsilanti, MI 48198.

For full rules, along with free logging software, log and summary sheets, see <http://www.miqp.org>.

Thanks and 73, Mike, N8MR 2016 MiQP Publicity

LCLW.....

A new website to learn and practice Morse telegraphy has been launched:
<http://lcwo.net/> - Learn CW Online

There are already hundreds of training programs, MP3/CD courses and practice aids available, but LCWO follows a radically different concept: While sticking to well-proven methods for learning and practice, all you need for using LCWO is a web browser!

Currently the site, which is available in 30 languages offers a complete Koch method Morse course, code group practice, callsign- and plain text training modes and also allows to convert random text to Morse MP3s.

LCWO.net is a non-commercial project. Creating a free account only takes a few seconds, and you can start practicing CW right away!

A story about UP hams to the rescue.

October 2015, my wife k8vox and I headed up north from Ann Arbor for a few nights of hammock camping, sight seeing, and color touring. We left Ann Arbor late, intending to stay at a state campground somewhere along the way.

Around 10pm we decided we could push further... then around 1am we decided we could drive all the way to our first destination. The Burned Dam State Forest Campground in the Ottawa National Forest. <https://goo.gl/maps/gjgx6PVtsDp>

While driving down Old US 2 Highway, we caught a glimpse of the aurora borealis through the trees. When we turned down FR4500 headed to the campground, we caught sight of a beautiful aurora display, and we stopped and watched it for a few minutes. We were exhausted, excited, and delirious.

We got to the campground around 2am and we were the only people there. We had the entire place to ourselves. We set camp a short walk from the waterfall, and slept in the chilly U.P. air. The forecast called for a low of 42F, and it got much colder than that overnight.

The next morning, we hopped in the car to warm up, and everything was fine, until a red error light came on the dash with a beep. It wasn't obvious what the light was for, so I looked in the manual. 'Electric power steering'. We decided to drive the car around the campground and see how it worked.... it made it around once, shifted to neutral, lit all the error lights up, and wouldn't go back into drive.

Around 10am Wednesday morning, we were stranded about 8 miles from civilization.

I had brought my Yaesu FT-2900R, and a Comet CA-2x4SR 40" antenna on a mag mount. I had programmed all of the U.P. repeaters, in addition to the northern Wisconsin repeaters into the 75 Watt Yaesu. We had food, and a water filter, and provision to stay warm, but no cell service.

I keyed up the radio, and started looking for repeaters that could hear me from down by the river. I found W8CDZ, it was scratchy, but I was able to trip the squelch. I called 'CQ Emergency' 3x, and waited. No-one responded. I waited a minute, and called again. W8FWG responded to my CQ, and he was barely making the repeater too. I explained our situation, and where we were. 'Burned Dam State Forest Campground' at 'Mex-i-min-e falls', on the 'Middle Branch of the Ontonagon River' in 'Gogebic county', outside 'Watersmeet'. We used the phonetic alphabet to transfer all of that information, and re-

peated it several times to make sure it was transferred correctly.

W8FWG called AAA for us, who after some long discussion decided we were far enough off their map, that they would not dispatch someone to help us.

W8FWG took charge, acting as net control, he organized the local hams to find someone to help us. They recruited AA8YF. AA8YF said "5 minutes to get ready, and 20 minutes to drive there..." and took off. Around this time, our car battery went dead. I got one last TX off to W8FWG saying my battery was dying, then it was done. I switched to my Baofeng BF-F8HP. It couldn't reach the repeater, even connected to the big antenna. It could receive though, so we were able to listen to the net while they waited for us to be rescued.

Time went by, the 25 minute estimate came and went, a bit more time went on and the net became concerned that the person they'd sent to rescue us may also need rescuing, and they began organizing a second rescue party.

Around that time, I got the idea of tuning my HT to the output frequency of W8CDZ. I keyed up and made contact with AA8YF, and we switched to 146.52. Moments later, he found our campsite.

We jumped the 12v battery in the Prius and got it driving again. we loaded up, and AA8YF followed us back to US 28 to make sure we got to a town safely. We eventually made it home safely, and ended up having the Prius repaired. The 12v charging system had failed.

Things I'm thankful for: everyone who helped us that day. CCRAA for providing the repeater, and Yaesu for making an affordable 75 watt radio.

Things I learned: Bring extra batteries. Practice the phonetic alphabet. Practice running and participating in nets. Listen to your radio, you never know when someone will use it to call for help

Repeated from /www.reddit.com
https://www.reddit.com/r/amateurradio/comments/49j8f7/my_story_about_amateur_radio_saving_the_day/

Details of the new repeater are found on page 19 under repeater specifications.

- From Bob Meyers

NPOTA ACTIVATION IN MICHIGAN NATIONAL PARKS, ETC

Regarding the National Parks on the Air event in Michigan, please review the following information from Mark Weaver, Superintendent of the North Country Trail.

Mark offers insights, assistance, and advice concerning amateur radio NPOTA activation at the various National Park locations in Michigan. He has graciously made himself available for questions and concerns regarding activations of said locations.

Mister Weaver's comments:

- The National Park Service/North Country Trail does not "own/manage" land thru which the trail passes. We are a partnership of various public and private landowners, with each relationship often being quite different. Most authority lies with the property owner.
- Regardless of where activations are planned to occur it is imperative to make contact and receive permission to activate from the "landowner".
- For Federally owned lands, there is a list of contact information on the Trail website: <https://www.nps.gov/noco/learn/management/trail-partner-organizations.htm>
- For other public lands- state, local, etc, we do not have a list- it would be prohibitively overwhelming to collect it. If you Google the name of the public land unit you should be able to locate a number to call.
- For private lands, we don't recommend that activations occur on private lands. If for some reason it is important, please contact me directly and I'll connect you with the North Country Trail Association state trail coordinator who MAY be able to help.
- When contacting public land managers seeking permission to have activation, ask to speak with their special events person. Be sure to indicate that your actions are in direct support of their partner National Park Service's 100th birthday. And if there is uncertainty expressed by your contact, ask them to give me a call.
- Don't do an activation without hardcopy permission in hand.
- Contact me with questions.
- MARK WEAVER, Superintendent
North Country National Scenic Trail, PO Box 288, Lowell, MI 49331
Cell and office: 616.430.3495 mark_weaver@nps.gov

Please take Mark's suggestions to heart. We are in the fortunate position of being allowed to participate in the 100th anniversary of the National Park System and of course, we want to put our best foot forward without controversy.

My thanks to Scott Yost, NM8R for facilitating contact with Mr. Weaver.

There is a movement afoot to "Light up the Trail" across the seven states that the North Country Trail passes through. This coordinated activity is currently being planned for June 4 and possibly June 5.

If you would like to receive information and/or become part of the planning for that event, you can contact John Forslin, KC8ULE at kc8ule@arrl.net. Now that the weather is warming, make your plans now to get out and activate one of Michigan's seven NPS units!

Best 73, Larry, WB8R Michigan ARRL Section Manager ARRL Michigan Section

ARLB032 W1AW 2016 Spring/Summer Operating Schedule

ARRL Bulletin 11 ARLB011
From ARRL Headquarters
Newington CT March 14, 2016
To all radio amateurs

Morning Schedule:

Time	Mode	Days
1300 UTC (9 AM ET)	CWs	Wed, Fri
1300 UTC (9 AM ET)	CWf	Tue, Thu

Daily Visitor Operating Hours:

1400 UTC to 1600 UTC - (10 AM to 12 PM ET)
1700 UTC to 1945 UTC - (1 PM to 3:45 PM ET)
(Station closed 1600 to 1700 UTC (12 PM to 1 PM ET))

Afternoon/Evening Schedule:

2000 UTC (4 PM ET)	CWf	Mon, Wed, Fri
2000 " "	CWs	Tue, Thu
2100 " (5 PM ET)	CWb	Daily
2200 " (6 PM ET)	DIGITAL	Daily
2300 " (7 PM ET)	CWs	Mon, Wed, Fri
2300 " "	CWf	Tue, Thu
0000 " (8 PM ET)	CWb	Daily
0100 " (9 PM ET)	DIGITAL	Daily
0145 " (9:45 PM ET)	VOICE	Daily
0200 " (10 PM ET)	CWf	Mon, Wed, Fri
0200 " "	CWs	Tue, Thu
0300 " (11 PM ET)	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.

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 2230 UTC (6:30 PM ET), 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 0000 UTC (8 PM ET) Thursdays and 0000 UTC (8 PM ET) Fridays.

Audio from W1AW's CW code practices, and CW/digital/phone bulletins is available using EchoLink via the W1AW Conference Server named "W1AWBDCT." The monthly W1AW Qualifying Runs are presented here as well. The CW/digital/phone 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.

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.

FCC licensed amateurs may operate the station from 1400 UTC to 1600 UTC (10 AM to 12 PM ET), and then from 1700 UTC to 1945 UTC (1 PM to 3:45 PM ET) Monday through Friday. Be sure to bring your current FCC amateur license or a photocopy.

The complete W1AW Operating Schedule may be found on page 103 in the April 2016 issue of QST or on the web at, <http://www.arrl.org/w1aw-operating-schedule>.



Skywarn Spotters 2016

Steve Johnson	K8CRY	Millie Hill
Tom Martin	W8JWN	Pine Mountain
Burt <u>Armbrust</u>	WB8EBS	Hill above Wells Fargo along US-2
Skip Caswell	KE9L	Merriman/Granite Bluff area
Bary <u>Perron</u>	KC9NFT	Keyes Peak
Jim Rye	W8IFI	Crystal Falls (Top of Hill)
Bob Meyers	WA8FXQ	<u>Faithhorn</u> area (if not in Copper Country)
Terry Moriarty	K9TRY	Niagara
Dave Thomas	KG9Y	Niagara
Bill Grabowski Debbie Grabowski	KD8VTT WD8VTS	Mansfield Township/Johnson's Potato Farm Area
Sam Holmes	N8ATS	Pike Plains, Dunbar
Joe Ferris	KC9TQR	Vicinity CR-N, U, C Florence County
Scott Dolatowski	KC9ZBC	Goodman
Jared Paul	ND8M	Norway Mountain

PRE-ORDER FORM

Please announce at your club meeting and reply back to me at: w8fwg@arrl.net

NLT JUNE 1, 2016

(George R. Thurner, W8FWG)

Announcing the **ALL NEW** U.P. Ham Directory

Over 1400 names and call signs of U.P. Ham radio operators
(More than 200 new names and call sign listed since the last printing)
Same low price (\$5.00/copy) as the last edition (Printed in 2007)

Featuring:

Alphabetic Index by Call sign
Alphabetic Index by Last Name
Census of Amateur Licenses by License class
Census of Amateurs by U.P. Counties
CTCSS (PL) Tone Frequencies
Emergency Contact Information
International Morse Code
I.T.U. Recommended Phonetics
List of U.P coordinated repeaters on 70 cm, 2-M and 6-M
List of Ham Exam location around the U.P, with new 2016 schedule of exams
Michigan State Police Posts
Nets
Old/New call signs
Personal Notes
Repeater Operating Practices
Safety Information
Scanner Law (updated as of Feb. 14, 2006)
Silent Key listing
The Amateur's Code
U.P. A.R.E.S. Organizational Structure
U.P. Zip Codes
U.P. Ham Radio Clubs - 2016 Edition (With GPS Coordinates)
URL's
U.P. Sheriff's Offices
V.E. Teams of the U.P.

Please indicate how many copies your CLUB would like to purchase at just **\$5.00/copy + S & H**

Please reserve _____ copies for our club. We are: _____ (Club Name)
 _____ (Address)
 _____ (City,St,Zip)
 _____ (Authorized by)

Send reply via E-Mail to: w8fwg@arrl.net by **JUNE 1, 2016**. Thank you!

ARRL MICHIGAN SECTION NEWS

Greetings to the hams of Michigan,

It appears as though we have rounded the bend into spring here in Michigan as the snow here in southern Michigan has disappeared. This means that we turn our collective ham thoughts to convective weather season, NWS Spotter Training courses (currently underway across the state) and preparing our "Go-Kits" for action.

NWS heavily depends on amateur radio operators for "Ground Truth" observations that help determine the accuracy of both computer models and forecasts. Our accurate and timely observations help to improve the forecasts of the future.

Words of caution for all who venture out into the field as spotters: **Pay close attention to where you are relative to the storm(s) and always have an exit route planned!**

NWS Skywarn Training

Now is the time to take a look at the National Weather Service Office webpage for the office that serves your locality and get registered to attend a weather training class. Often, periodic weather training is required to remain an ARES and/or RACES member, so this is a good time to get that training and to brush up on the latest in technology and methodology for severe weather.

If you are unable to attend a session in your county, feel free to attend a session in an adjacent county. Any training is better than none. See your local amateur radio emergency coordinator (EC/RO) for training or ARES/RACES/AuxComm membership in your county.

Not sure who your EC/RO is? A quick email to our Section EC at wb8rcr@arrl.net will get you that answer.

Section Travel Plans

Mar 19, 2016 Crossroads Hamfest, Kalamazoo, MI – WB8R
 May 7, 2016 Cadillac Hamfest, Cadillac, MI – WB8R

May 14, 2016 Chassell Hamfest, Chassell, MI

May 20-22, 2016 Dayton Hamvention, Dayton, OH – WB8R et al

Jun 10, 2016 LARS Swap, Newberry, MI – WB8R

Jun 18, 2016 Midland Hamfest, Midland MI – WB8R

Jun 19, 2016 Monroe Hamfest, Monroe, MI – WB8R

Hospitality Acknowledgements

Livonia Swap, Livonia (WB8TKL)
 Thank you for your hospitality.

Michigan ARRL Website

The new Michigan ARRL website (www.mi-arrl.org) is coming along nicely and we are adding content as we move forward. Photos of the Interoperability Conference in Traverse City last month appear on the website, with more to come as we progress. Thanks to Gordon, W8CT for herding the cats!

Michigan Statewide Interoperability Conference

The Michigan Statewide Interoperable Communications Training Conference was held in Traverse City on February 22-25 with a large number of Public Safety individuals and amateur radio operators in attendance. Good weather prevailed and the presentations, meetings, and conversations were outstanding.

Amateur radio is a major component of AuxComm (Auxiliary Communications) which consists of volunteer services including ARES, RACES, MARS, SATERN and CAP.

Our relationship with the State of Michigan continues to grow and thrive and I am happy to report that generally speaking, emergency management at both the state and local levels understand the commitment of Michigan ham radio operators and the capability of those operators.

While there is still much work to do on a never-ending journey, Michigan hams can be proud of their accomplishments in this regard.



Michigan QSO Party

Now is the time to begin to think about participation in the Annual Michigan QSO Party on April 16 from noon to midnight, which is sponsored by the Mad River Radio Club. You can locate all necessary information here: <http://miqp.org/>. On their web page, you can find the

2016 MiQP flyer which is handy for printing a few copies to take to your club meetings to pass around to interest your members in participating.

There are a number of categories of participation and room for participants from large, experienced contest groups to individual operators participating for the very first time. The contest is a maximum of 12 hours (noon to midnight), so there will still be family time available that weekend. No amplifier? No problem. A hundred watts will work just fine. Modest stations are able to do quite nicely. I look forward to bumping into you on the air!

Amateur Radio Parity Act

The Amateur Radio Parity Act would require the FCC to amend its Part 97 Amateur Service rules to apply the three-part test of the PRB-1 federal pre-emption policy to include homeowners association regulations and deed restrictions, often referred to as "covenants, conditions, and restrictions" (CC&Rs). At present, PRB-1 only applies to state and local zoning laws and ordinances. The FCC has been reluctant to extend the same legal protections to include private land-use agreements without direction from Congress.

H.R. 1301 recently had a hearing before the House Energy and Commerce Committee's subcommittee on Communications and Technology. Rep Greg Walden, W7EQI (R-OR), chairs the subcommittee. A Committee mark-up session and vote will be scheduled shortly. S 1685 has passed the Senate Commerce, Science and Transportation Committee's subcommittee on Communications, Technology, Innovation and the Internet, which is chaired by the bill's sponsor, Wicker. Full consideration has not been scheduled yet.

National Parks on the Air (NPOTA)

The NPOTA event of 2016 is underway. Great operating fun awaits you!

Complete information about this year-long on the air operating event can be found on the ARRL website (<http://www.arrl.org/NPOTA>)

Michigan Section Family Outing July 8-9, 2016

Planning has begun for the 18th Annual Michigan Section Family Outing to be held at the Woodlands Conference Center and Campground near Hale, MI on July 8 and 9. The Michigan annual EC meeting will be held there on Saturday, July 9. The Friday and Saturday programs and demonstrations are being planned as this is written.

There is room for your RV or trailer or you can tent camp and there are plenty of hotel rooms in nearby West Branch if roughing it is not on your agenda!

Mark your calendars now!

Michigan Section Traffic/ARPSC Nets (All times Local)

- 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

Station Activity Reports (SAR) for February, 2016:
WB8WKQ 262, K8ED 208, WB9JSR 122, K8RDN 87,
WD8USA 71, WD8MWD 46, W8MSK 22, N8OSL 21,
KC8BW 15, WB8RCR 11, KC8NFN 6, WB8R 6.

Total SAR reported: 877

Brass Pounder's League (BPL) for February, 2016: None

Public Service Honor Roll (PSHR) for February, 2016:
WB8RCR 471, WB8R 279, N8OSL 246, WD8USA 215,
WD8MWD 155, WB9JSR 130, WB8WKQ 120, K8ED 100,
K8RDN 95, KC8YVF 74, KC8BW 65, KD8LSM 48, KC8NFN
36.

Net traffic for February, 2016: Michigan Amateur Com-
munications System 96, The Michigan Net 95, Michigan
Traffic Net 85, Upper Peninsula Net 40, Great Lakes
Emergency and Traffic Net 37, Southeastern Michigan
Traffic Net 29, Michigan Digital Traffic Net 13, Motor City
Radio Club
2 Meter Net 10, Michigan Amateur Radio Public Service
Corps 8, Saginaw County ARES Net 5, Bay Area Regional
Traffic System 3, District 3 ARPSC Net 3, Michigan VHF
Traffic Net 3, Red Cross Net of Greater Grand Rapids 2,
District 3 Digital Training net 2, Genesee County ARPSC
Traffic and Training Net 1, Michigan ARES D-Star net ,
Northern Lower Eastern Upper Peninsula Net , Luce
County ARES Net , Chelsea ARC Net , Branch County
Emergency Net , District 8 Emergency Net.

Total net traffic reported: 432

February, 2016 NTS dollar equivalent value for services:
\$50012.

February, 2016 ARPSC dollar equivalent value for ser-
vices: \$168,990.

Total February, 2016 dollar equivalent value for services:
\$219,002.

Note: Dollar equivalent value for services is the cost of
public service provided to the State of Michigan by ama-
teur radio operators if the State were to pay for those
services. The cost per hour is based upon an agreed up-
on equivalent value of volunteer services in Michigan.

The dollar equivalent value of services rendered by ama-
teur radio in Michigan in 2015 was \$2.2 million!

My sincere thanks go to the Michigan operators who are
in a perpetual state of preparing for the emergency that
we all hope never comes. Your tireless efforts speak
highly of the Michigan work ethic.

Until next time and Best 73,

Larry, WB8R



Dales Tales

Greetings everyone, welcome to "Dale's Tales" for April, 2016.

UPDATE for AMATEUR RADIO PARITY ACT: This subject moves to the front of the column as recent actions are getting us reasonably close to closure. Our ARRL Legislative Action Committee members have been meeting in Washington to reconcile the bill verbiage with representatives of homeowners' associations. I am optimistic that most of the concerns on both sides of the issue have been resolved and I look for us to have a bill that will not face opposition in either the House or Senate. I am not attempting to say the deal is done, it is not and we remain steadfast that hams are to be treated fairly in installing an outside antenna. Opposing that single issue can be a deal breaker as it is the basis for the entire bill. You can find more information at <http://www.arrl.org/amateur-radio-parity-act>. Thanks to so many of the Great Lakes Division hams who have sent letters supporting the legislation. If you have not done so, you can find a sample on the listed web page. Please be sure to route your letters through ARRL Headquarters for personal delivery: ARRL, Attn: Amateur Radio Parity Act grassroots campaign, 225 Main St., Newington, CT 06111. We will hand deliver the letters, thus avoiding delays caused by the postal inspection system in DC.

SPRING: It is now upon us and along with it, the frequent severe weather that hits the Midwest. Many regions are well underway with their annual spotter training programs, certainly an important item on the calendar. Recognition of what constitutes a funnel cloud vs virga can be a lifesaving measure. While our ARES members train in storm spotting, these sessions also offer an opportunity to work on net procedures. Knowing what to report and how best to convey the information on a busy net (with an overworked net control) insures efficiency and accuracy, again, potential lifesaving measures. We need to ask ourselves "Who uses our reports? What data do they need? How it is best presented to them? Can your local Emergency Management people use a spotter report in the same form as the National Weather Service? What is the best method to get the report to your partner agency?"

Certainly, many more questions need answers, so meet with partner agencies now, well before severe weather sets in, to work out the details so our ARES programs are viable and incorporating the Best Practices to serve the public.

NPOTA: I am receiving a lot of positive input about National Parks on the Air. Here we are with spring is only a few days upon us and the bands are busy with NPOTA operations. Warmer weather will bring even more operators into the field and more of the National Park System locations on the air. Remember if you have the opportunity to set up and operate, check in at the park office and let them know your plans. Many are willing to assist with PR and even help you put up a suitable sign to let the public know who you are. Let's make the best of the show.

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

As I've noted here before, I really enjoy being able to connect with people throughout the Division and find out what projects they are working on, and from time to time, sharing progress reports with everyone. So it's been good to be able to get to some hamfests in Kentucky and Michigan. Next up is the granddaddy of them all, the Dayton Hamvention®. Hope to see many of you there.

I spent many years volunteering with Red Cross, especially in planning and preparing communications of all types for disaster. I'm still involved, as a matter of fact. So when I see possibilities for new things in ham radio, I'm really encouraged as well. There are all sorts of good activities going on in the Division with regard to emergency communications. We have groups working on digital data, from the MESH networks to the various digital nets; there is an upcoming NVIS antenna day, sponsored in Ohio, but open to participation from Michigan and Kentucky; and there are efforts in digital voice. I have to admit that I'm partial to the DMR technology, but I know D-Star has a lot of dedicated enthusiasts, and Fusion has some promise, particularly with all the new repeaters out there.

Lately, I've been chatting back and forth with the folks in Mansfield, Ohio, where they just put up a new DMR repeater. The statewide talkgroup offers promise for coverage in an emergency. Now I realize that some people will argue that the internet may be down in a big disaster, so why bother with something that is so internet based?

But my answer would be that as long as the system is out there, we may as well experiment with it, and use it. When it comes to communications in an emergency, you can never have too many systems. True, you don't know which ones will work and which ones won't, so that's why it's important to have options. The one you don't expect to use may be the one to get you through the worst of the disaster.

Hams don't often need encouragement for new technology. When we find something we like, we go for it. We get involved, and make new things happen. If there's any advice to offer, it would simply be this—look for the possibility your favorite mode might have for emergency communications, and help develop that along with all the other good things it does.

As I mentioned, D-Star has been around and has well-established nets. DMR is rapidly advancing. What are the plans for interconnecting the Fusion repeaters? How soon can we count on them for digital coverage of a state or a region?

Disasters can happen at any time. But Spring is often the season for weather-related emergencies throughout our Division. So let's do what we can to be prepared again this year.

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. We have approximately 65 hamfests each year in the Great Lakes Division. I do encourage each Hamfest Chair to register early for ARRL Sanctioning. It is never too early to register your hamfest with Headquarters. Be sure to invite your ARRL Officials as soon as your date is set. Help avoid date conflicts, do it early!

Apr 2 - Portsmouth - Portsmouth, OH
 Apr 9 - Cuyahoga Falls - Cuyahoga Falls, OH
 Apr 19 - Letcher County - Whitesburg, KY
 Apr 23 - Jackson County - Jackson, OH
 Apr 24 - Athens - Athens, OH
 May 7 - Cadillac - Cadillac, MI
May 14 - Chassell Hamfest - Chassel, MI
 May 20-22 - Dayton HamVention - Dayton, OH
 May 28 - Ashland - Ashland, KY

73, See you on the bands.

Dale Williams WA8EFK
 Director
 Great Lakes Division

ARRL PROPAGATION BULLETIN

QST de W1AW
 Propagation Forecast Bulletin 13 ARLP013
 From Tad Cook, K7RA Seattle, WA
 March 28, 2016
 To all radio amateurs

All of the indicators we track were lower over the past week (March 17-23), compared to the previous seven days. Average daily sunspot numbers declined from 51.7 to 28.4, and average daily solar flux was 88.8, compared to 98.6 during the prior seven days. Planetary A index was lower by 3.8 points to 11.9, and average mid-latitude A index (measured in Wallops Island, Virginia) was down from 12 to 8.6. Lower geomagnetic indices are generally considered a good thing for HF propagation.

Looking at the record at <ftp://ftp.swpc.noaa.gov/pub/indices/DSD.txt> we can see that until March 24, there were no new sunspot regions since March 17 when there was one, which followed two on the day before.

Even though our Sun is quiet, there is a seasonal variation which produces aurora around the Vernal and Autumnal Equinox. (Vernal, or Spring Equinox was on Sunday, March 20, 2016 and the next Autumnal or Fall Equinox this year will occur on Thursday, September 22, 2016.)

Spaceweather.com supplied this article a few days ago explaining how this works:
<http://www-ssc.igpp.ucla.edu/personnel/russell/papers/40/> .

From NOAA and the USAF, predicted solar flux is 88, 90, 92 and 88 on March 25-28, 90 on March 29 through April 3, 95 on April 4-11, 90 on April 12-17 and 85 on April 18-20. Flux values are predicted to go back to 95 again after April 30.

Also via NOAA, planetary A index for March 25-29 is predicted at 5, 8, 8, 10 and 8, then 5 on March 30 through April 1, then 30, 20 and 8 on April 2-4, 5 on April 5-7, then 10, 5, 15, 24, 22, and 20 on April 8-13, and 8 on April 14-15. The A index then jumps to 30 on April 29.

F.K. Janda, OK1HH sends us his geomagnetic forecast, but this week I want to test a different format. You can see the format we've been using in past bulletins at <http://arrl.org/w1aw-bulletins-archive-propagation>. See below for a link to my survey.

Here is the proposed format:

Geomagnetic activity forecast for the period March 25-April 20, 2016

Geomagnetic field will be:

Quiet on March 25-26, April 1, 14, 17-18 Mostly quiet on March 30-31, April 6, 10, 15-16, 19 Quiet to unsettled on March 27, 29, April 7, 20 Quiet to active on March 28, April 5, 8-9, 11, 13 Active to disturbed on April 2-4, 12

Increases in solar wind are expected on March (30), April 4-6, 9, 11, 14

Remarks: - Parenthesis means lower probability of activity enhancement. See examples and vote at, <https://www.surveymonkey.com/r/BP9FMTZ> .

Ray Soifer, W2RS in Green Valley, Arizona on March 24 sent this info about working 30 meter grayline propagation yesterday morning:

"Interesting propagation. I heard nothing from VK0EK until half an hour before sunrise. He peaked 579 around sunrise, then faded and was gone 30-40 minutes after. Quite a grayline."

Ray didn't tell me that VK0EK is on Heard Island, but maybe I should already know that: <http://vk0ek.org/>
 The distance from Ray's QTH to Heard Island is 10,945 miles, short path.

More info about Heard Island, from the Australian government:
<http://heardisland.antarctica.gov.au/>

Max White, MOVNG, and earlier David Moore sent this link to an ultraviolet image of our Sun:
<http://bit.ly/1RqCOAr> .

Martin McCormick, WB5AGZ of Stillwater, Oklahoma sent this piece in a message titled "Is it F2, or E?"

"One of the first things a person notices when listening to HF signals coming from afar is a characteristic sound as if someone was continuously playing with tone controls. It is especially noticeable on AM signals and the wider the receiver passband, the more pronounced is the effect. This is known as selective fading because different frequencies fade in and out at different times.

"The Earth's ionosphere is a shell or several shells of electrically-charged air molecules and atoms ranging from around 38 miles above us to about 310 miles high. The Sun and cosmic rays cause the molecules and atoms to loose electrons which gives them a positive charge. They can reflect radio signals and give us world-wide radio communication.

"The reflecting layers are the E layer at about 56-93 miles plus the F layer complex which consists of several shells or layers that come, go and move around based on Solar and Geo magnetic activity.

"The f2 layer is mostly responsible for short wave communications and the selective fading is due to more than one layer reflecting the same signal back to Earth. If the layers happen to be half of a wavelength apart, one receives two versions of the same signal in which one version is delayed enough to cause the carrier of an AM or FM signal to be cancelled out. Mother Nature just turned a normal AM signal in to a double-sideband suppressed carrier transmission.

"FM signals are also altered. It is possible to receive FM on an AM receiver by tuning slightly off from center. It is called slope detection and has existed for as long as there has been FM. If you tune right on to the frequency, the audio is faint and muffled. F2 propagation, however, can cause a selective fade just below or above the carrier frequency such that if you are on the center frequency, the amplitude of the signal matches the deviation and you can hear fairly good audio as if the signal was both AM and FM. Nature automatically did that, also but the effect may not last more than a fraction of a second.

"When sporadic-E is involved, signals still fade up and down but the E layer acts like a single thin film and there is no selective fading. Except for fades, signals sound local."

If you would like to make a comment or have a tip for our readers, email the author at 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 the 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/>.

My own archives of the NOAA/USAF daily 45 day forecast for solar flux and planetary A index are in downloadable spreadsheet format at <http://bit.ly/1VOqf9B> and <http://bit.ly/1DcpaC5>.

Click on "Download this file" to download the archive, and ignore the security warning about file format. Pop-up blockers may suppress the download.

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 March 17 through 23 were 66, 29, 26, 26, 25, 13, and 14, with a mean of 28.4. 10.7 cm flux was 91.6, 90.3, 89.4, 87.6, 88.9, 87.3, and 86.8, with a mean of 88.8. Estimated planetary A indices were 21, 8, 18, 10, 8, 8, and 10, with a mean of 11.9. Estimated mid-latitude A indices were 16, 6, 12, 6, 7, 6, and 7, with a mean of 8.6.

ARRL DX NEWS

QST de W1AW
DX Bulletin 12 ARLD012
From ARRL Headquarters
Newington CT March 24, 2016
To all radio amateurs

This week's bulletin was made possible with information provided by DL1NX, QRZ DX, OPDX, The Daily DX, DXNL, Contest Corral from QST and the ARRL Contest Calendar and WA7BNM web sites. Thanks to all.

TUNISIA, 3V. Ash, KF5EYY will be QRV as 3V8SS in the CQ World Wide WPX SSB contest as a Single Op/All Band entry. QSL via LX1NO.

TOGO, 5V. A group of operators are QRV as 5V7D from Kpeme until April 11. Activity is on 80 to 10 meters using CW, SSB and RTTY. They also plan to operate EME. QSL via DL9MBI.

ALGERIA, 7X. Noury, 7X2JV plans to be QRV as 7U9C in the CQ World Wide WPX SSB contest as a Single Op/All Band entry. QSL via SM4VPZ.

EAST MALAYSIA, 9M6. Members of the Borneo Amateur Radio Club will be active as 9M6SDX in the CQ World Wide WPX SSB contest. QSL via bureau.

TONGA, A3. Hiro, JA6WFM will be QRV as A31MM in the CQ World Wide WPX SSB contest on all bands. QSL direct to EA5GL.

TAIWAN, BV. A large group of operators will be QRV as BPOP from Taoyuan, IOTA AS-020, in the CQ World Wide WPX SSB contest. QSL via BPOP.

CHINA, BY. Richard, BG9GXM is QRV as BG9GXM/3 from Hohhot City until March 29. Activity is on 40 to 10 meters, and possibly 80 and 6 meters, using mainly SSB, JT65 and possibly CW. He plans to be active as BG3ITB in the CQ World Wide WPX SSB contest. QSL both calls direct to BG9GXM.

CAPE VERDE, D4. Members of the Monteverde Contest Team are QRV with special event call D41CV to mark the

41st Anniversary of Cape Verde's independence. They also plan to be active as a Multi/Multi entry in the CQ World Wide WPX SSB contest. QSL via IZ4DPV.

PALESTINE, E4. Operators Elvira, IV3FSG and Angelo, IK2CKR are QRV as E44YL from Bethlehem until April 7. Activity is on the HF bands using CW, SSB and various digital modes. They will also be a Multi/Single entry in the CQ World Wide WPX SSB contest. QSL SSB and digital mode QSOs via IK3GES and all CW QSOs via IK2CKR.

JUAN DE NOVA, EUROPA, FT/J. A group of operators will be QRV as FT4JA from Juan de Nova Island, IOTA AF-012, from March 29 to April 11. Activity will be on 160 to 10 meters using CW, SSB and RTTY, and TEP and EME on 6 meters. QSL via F5CWU.

FRENCH GUIANA, FY. FY5FY plans to be QRV in the CQ World Wide WPX SSB contest as a Single Op/All Band/High Power entry. QSL via operator's instructions.

LIECHTENSTEIN, HB0. Alex, DL1NX is QRV as HB0/DL1NX until March 27. Activity is on the HF bands using CW and SSB. This includes being an entry in the CQ World Wide WPX SSB contest. QSL to home call.

THAILAND, HS. A group of operators will be QRV as HS0AC as a Multi/2 entry in the CQ World Wide WPX SSB contest. QSL via HS5NMF.

U.S. VIRGIN ISLANDS, KP2. Yuriy, N2TTA will be QRV as NP2P in the CQ World Wide WPX SSB contest as a Single Op/All Band entry. QSL via operator's instructions.

CRETE, SV9. A group of operators will be QRV as SX9C in the CQ World Wide WPX SSB contest. QSL direct via SV9COL.

KAZAKHSTAN, UN. Special event station UP55F is QRV until April 16 to celebrates Yuri Gagarin's flight into space. QSL via operators' instructions.

HEARD ISLAND, VK0. A large group of operators are QRV as VK0EK until April 10. Activity is on 160 to 10 meters using CW, SSB and RTTY. QSL via M0URX.

The ARRL National Parks on the Air event runs during all of 2016 to mark the 100th anniversary of the National Park Service.

INDIA, VU. A group of operators will be QRV as AT5R from Rangaon Beach, Vasai as a Multi/2 entry in the CQ World Wide WPX SSB contest. QSL via operators' instructions.

Please see March 2016 QST, page 83, and the ARRL and WA7BNM contest web sites for details.

LAOS, XW. Makoto, JA7FGI plans to be QRV as XW7FG from Vientiane from March 29 to April 4. Activity will be on 80 to 6 meters using SSB, RTTY and PSK31. QSL to home call.

MACEDONIA, Z3. Members of radio club Stevo Patakot are QRV as Z370CEF until the end of the year to celebrate its 70th anniversary. QSL via bureau.

THIS WEEKEND ON THE RADIO. The CQ World Wide WPX SSB Contest, QRP CW Fox Hunt, NCCC RTTY Sprint, NCCC CW Sprint and FOC CW QSO Party will certainly keep testers busy this upcoming weekend.

The Low Power Spring CW Sprint is scheduled for March 28. The Phone Fray, CWops Mini-CWT CW Test and UKEICC 80-Meter CW Contest are scheduled for March 30.

CLASSIFIED

Below are items for sale:

Radio Shack PRO 2040 100 channel home scanner \$40

Mobile 5/8 wave 2 meter antenna, magnetic base \$15

Contact Tom Martin W8JWN

Space Available to push your stuff



UP AREA HAM FEST INFORMATION

From ARRL: May 14, 2016 - Chassell Hamfest, Chassell, MI

Location: Chassell VFW HALL

42103 Wilson Memorial Drive (US 41)

Chassell, MI 49916

Website: <http://kcra-mi.net/>

Sponsor: Copper Country Radio Amateur Assn. & Keweenaw County Repeater Assn.

Talk-In: 146.28/.88 (-) (PL 100.0)

Public Contact: Howard Klann, KD8ABP

Phone: 906-337-0234

Email: msgklann@pasty.net

— *Thank You Bob Meyer s for relaying this info (Editor)*

**THIS
Space
Reserved
For
You**

LINKS AND STUFF

Under re-construction. Watch for the orange barrels

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

*Cooper Country Radio Amateur
Dollar Bay, MI
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/>

ABOUT OUR CLUB....

Club Officers

President:

Tom Martin, W8JWN
 (906) 774-5463
tmartin@chartermi.net

Vice President

Scott Jarmusch, KA8TFF

Secretary:

Joe Ferris, KC9TQR
irferris@borderlandnet.net

Treasurer:

Debbie Garbowski, KD8VTS
 (906) 284 -2450
kd8vts@gmail.com

Editor:

Tom Heyboer, KC8TH
 (906) 779-0481
Heyboer.tom@gmail.com

Web Editor:

Tom Heyboer, KC8TH
 (906) 779-0481
Heyboer.tom@gmail.com

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 tone encode and decode Power 50 watts. The Controller is an Arcom RC 210 .

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



Hewlett-Packard

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.