



MICH-A-CON

Iron Mountain,
Dickinson County, Mich

May 2016

Meeting Reminder: Second Wednesday of the Month

Which is **May 11, 2016** at **07:00 PM** at the **Dickinson Library, Iron Mountain.**

Please be there and support the cause of Amateur Radio.

From The President

Words from the President

Wow, it was 80 degrees yesterday! Has spring/summer arrived? Will we see anymore snow? Can we start to plant our gardens? My father always went by the, "wait until Memorial Day" rule, when it came to planting. Working on antennas doesn't have any seasonal rule. If work has to be done, it doesn't matter if it's January or July. If you want to get on the air, put on your snowmobile suit, or shorts and "Just Do It".

I put up a side mounted beam on New Years Weekend a few years ago. It was minus 8 degrees. As long as there isn't much wind, chill factor you know, it's not that much of a problem. Just don't touch your tongue to a wrench or tower leg!

Now, with warmer weather becoming the norm, I will have to take advantage of the "perfect" conditions and change coax on two beams, find out why my rotor isn't turning the SteppIR, and realign the side mounted Mosley beam. It got blown off course this past winter by 90 degrees.

Field Day 2016! June 25 and 26 are the dates. If you plan on bringing food and drink to support the club and to provide for the picnic, please let me or Debbie(KD8VTS) know of your contribution.

I would like to know by no later than the June meeting, which by the way will start at 6:30 due to summer library hours, of your intent to operate during Field Day. We would like to "man" three stations full time plus a GO-TA station. Also, if you have any children under the age of 18, invite them along to make at least one contact. We get bonus points for youth operators. A 20-point bonus (maximum of 100) may be earned by any Class A, C, D, E, or F group for each participant age 18 or younger at your Field Day operation that completes at least one QSO.

See you at the next meeting at 7:00 on Wednesday, May 11th.

73,

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Tom W8JWN

2016 ARRL Field Day is June 25-26

International Lighthouse Lightship Weekend August 15-16

Missing Gin Pole, If know where it is contact Tom Martin

Congradulations to Joe and Bill on passing Extra Exam

MICH-A-CON AMATEUR RADIO CLUB MINUTES OF April 13, 2016

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

Secretary Report

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

Treasurer Report

Balances as of April 13, 2016

Checking: \$4.05

Savings: \$2,000.87 (\$347.60 repeater)

Cash: \$22.00

Repeater Report

Bob Meyers reported that the two-meter repeater and the 440 are now linked. However, there is still an audio problem on the 440 unit.

The work on linking to the Marquette system is continuing. It should be ready for use by the severe weather season.

Skip Caswell will contact the climbers from Marinette so the antenna work can be completed. The standoffs are also needed at the site before the climbers arrive.

Old Business

Gary Schafer reported that the club's Kenwood TS-440 now puts out 110 watts, so concerns about low power output should be fixed.

Research on changing the club's status to an LLC is still inconclusive. We need to get some advice from someone who knows the incorporation laws. It was suggested that we might get more information from Jared Paul as he has had experience with incorporation in the past.

Bill Grabowski reported that the U.S. Forest Service has tentatively approved the plan for activating Superior Point Lighthouse, for International Lighthouse Lightship Weekend in August. Terry Moriarity noted that the activation has now been registered with the sponsoring organization. Since it will

be a first-time activation, it has not received a number yet, but it is listed on their webpage. The plan is to use an antenna trailer with a hexbeam along with a vertical.

Tom Martin noted that the updated storm spotter list was published in the recent newsletter. It will also be placed on the club website. It was also reported that the National Weather Service storm spotter training will be held at 6:30 on Wednesday, May 4, at Bay College West.

New Business

Tom Heyboer reported that a New U.P. Ham Directory will be printed soon. The deadline for ordering is June 1st and the cost is \$5.00 a copy. A count was taken and the club will place an order for 18 copies.

A request for shortwave antenna advice has been received from Bob Magnusson, from Norway.

The club page on QRZ.com is no longer current and in need of additional information. President Tom Martin will contact Mike Bray for information, as he was the trustee.

Skip Caswell asked if the club still has a gin pole. Discussion revealed that it is not known where it is. Tom Heyboer will put a request for information on the website.

Adjournment

The meeting was adjourned at 7:34 pm. (Tom Heyboer/Scott Jarmusch)

For the Good of the Order

Attendees reported on their recent activities.

The 50/50 drawing was won by Gary Schafer. Thirty-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
Barry Perron, KC9NFT

Tom Heyboer, KC8TH
Dana Bey, W8BEY
Tim Miller, N8TUM
Terry Moriarity, K9TRY
Dave Thomas, KG9Y
Bruce LaLiberte, Visitor
Joyce Williams, Visitor

News

Subject: Did I Read That Sign Right?

Kids Make Nutritious Snacks

Do they taste like chicken?

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!



ARRL Bulletin 15 ARLB015
From ARRL Headquarters
Newington CT April 28, 2016
To all radio amateurs

ARLB015 FCC Invites Comments on Petition to Eliminate 15 dB Gain Limit on Amateur Amplifiers

The FCC has put on public notice and invited comments on a Petition for Rule Making (RM-11767), filed on behalf of an amateur amplifier distributor, which seeks to revise the Amateur Service rules regarding maximum permissible amplifier gain. Expert Linears America LLC of Magnolia, Texas, which distributes linears manufactured by SPE in Italy, wants the FCC to eliminate the 15 dB gain limitation on amateur amplifiers, spelled out in Part 97.317(a) (2). Expert asserts that there should be no gain limitation at all on amplifiers sold or used in the Amateur Service.

RM-11767 can be found on the web at, <http://apps.fcc.gov/ecfs/comment/view?id=60001536394> .

"There is no technical or regulatory reason [that] an amplifier capable of being driven to full legal output by even a fraction of a watt should not be available to Amateur Radio operators in the United States," Expert said in its Petition.

Expert maintains that the 15 dB gain limitation is an unneeded holdover from the days when amplifiers were less efficient and the FCC was attempting to rein in the use of Amateur Service amplifiers by Citizens Band operators. While the FCC proposed in its 2004 Notice of Proposed Rulemaking and Order in WT Docket 04-140 to delete the requirement that amplifiers be designed to use a minimum of 50 W of drive power and subsequently did so, it did not further discuss the 15 dB amplification limit in the subsequent Report and Order in the docket.

The R&O is in PDF format at, https://apps.fcc.gov/edocs_public/attachmatch/FCC-06-149A1.pdf

"Although no party advocated retention of the 15 dB limit, it remains in place today," Expert pointed out in its filing. "In the intervening years, advancements in Amateur Radio transmitter technology have led to the availability of highly compact, sophisticated low-power transmitters that require more than 15 dB of amplification to achieve maximum legal power output. Therefore, Expert seeks to remove the 15 dB limit from Part 97.317 so that Amateur Radio manufacturers and distributors will not be forced to needlessly cripple their amplifiers for sale in the United States."

Expert pointed to its Model 1.3K FA amplifier as an example of a linear "inherently capable of considerably more than 15 dB of amplification," which would make it a suitable match for low-power transceivers now on the market having output power on the order of 10 W.

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@arri.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@arri.net by **JUNE 1, 2016**. Thank you!

ARRL MICHIGAN SECTION NEWS

Greetings to the hams of Michigan,

Jul 30, 2016

CMARC, Lansing, MI – WB8R

As we progress through this second try at spring, we are expecting a warm-up (again) with some temps inching near the 70 degree mark. This is the time to be thinking of checking the status of our antenna systems, making needed repairs and perhaps getting ready to put up that tower or new beam or dipole or whatever strikes your fancy. Maybe the idea for a modified version of an existing antenna or a whole new design can become reality. The important thing is to experiment, try, test, learn, rinse and repeat. Have fun!

From the Livonia ARC:

What hobby involves reception of radio signals from satellites? If you answered “ham radio” you would be right. And if you answered “geocaching” you would also be right. The Livonia Amateur Radio Club (K8UNS) will be hosting a GeoFox event on Saturday, May 14 at Bien Park, 14900 Eckles Rd., Livonia, which is near I-275 and Five Mile Rd.

Teams will assemble at 9:00 am, each team will have at least one ham and at least one geocacher. The gun will sound at 10:00 am and the hunt will continue to about 12 noon or after the last team returns. Lunch and prizes will follow. Although not required, participants are strongly encouraged to bring any fox hunting equipment they may have or a two meter handheld transceiver, a GPS unit or a smart phone with a geocaching app. For further information, please contact Jodie Harris N8LSA at 248-615-8289 or jodieh1066@aol.com with “Geofox” included in the subject matter.

Section Travel Plans

May 7, 2016	Cadillac Hamfest, Cadillac, MI – WB8R
May 14, 2016	Chassell Hamfest, Chassell, MI
May 20-22,	Dayton Hamvention, Dayton, OH – WB8R
Jun 11, 2016	LARS Swap, Newberry, MI – WB8R
Jun 18, 2016	Midland Hamfest, Midland MI – WB8R
Jun 19, 2016	Monroe Hamfest, Monroe, MI – WB8R
Jul 8-9, 2016	MI Section Family Outing, Hale, MI – WB8R et al
Jul 16, 2016	Lowell Youth Club, Lowell, MI – WB8R

It is never too early to submit your hamfest for approval. There are a lot of folks that will be vacationing around the state and would like to attend your swap – but there is a catch: In order to plan to attend a hamfest, people need to know about it. In order to know about it, you have to tell them by registering your swap with the ARRL. No publicity equals fewer attendees.

Hospitality Acknowledgements

Crossroads Hamfest – WB8R, WA8EFK and W8WTD
Thank you for your hospitality.

Michigan QSO Party

Don't forget that the Michigan QSO Party will be on the air on April 16. Yes, that is just one day after this column hits the streets. Get hooked up with your club to help out with their effort, get with a buddy or two and operate from your station or theirs, or just participate on your own from your own station. Big power and large antennas are not required (nice to have, but not necessary to have fun).

The event goes from noon to midnight EDT – work it all or just part. The important thing is to get on the air and make some contacts. You can locate all necessary information here: <http://miqp.org/>. I look forward to bumping into you on the air!

Bus Trips to Dayton Hamvention

Looking for the low stress way to take a one day trip to Dayton? There are two clubs in Michigan that are offering bus trips to the Dayton Hamvention. You can find information here:

<http://k8kzo.com/Dayton/dayton.pdf>

<http://www.w8pgw.org/activities/dayton-bus-trip/>

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>).

NPOTA Light up the Trail June 4-5

Here in Michigan we have a group of dedicated hams who are feverishly working on organizing an on-air event to take place on June 4-5.

The North Country Scenic Trail runs through 7 states from New York to North Dakota and enters Michigan in Hillsdale County and runs north around 20 miles and then turns west through Ft. Custer near Battle Creek. From there the trail meanders north along the western side of the state to Sleeping Bear Dunes, across the Straits and then west from St. Ignace to the Wisconsin border.

The goal of this group is to "Light up the Trail" in all 7 states during the weekend of June 4 – 5. You can get the scoop here: <http://qsl.net/kd8dku/LightUptheTrail.htm>.

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. Preliminary information is available at www.sectionouting.info. Keep in mind that this website is in a frequent update mode as activities are coordinated and added to the activities calendar. Be sure to check there often as we have some great programs and activities being planned on both Friday and especially Saturday.

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!

Here is a partial list of Saturday's activities (please remember that this is a work in process and things will likely change).

Planning your communications - How the ICS-217A and ICS-205 work together to make your incident communications run smoothly.

- Chuck Cribley WA8LQD - COM-L, Logistics Section Chief, Region III IMT member
- Dave Wallick N8LBF - District 3 Emergency Coordinator

The new SEOC - A walk through the new State Emergency Operations Center, including the various features to make the SEOC resilient and survivable

- Don Bouffard - Facilities Engineer - Michigan State Police

NBEMS - How to get started with narrow band emergency messaging system

- Dave Wallick N8LBF - District 3 Emergency Coordinator

VHF and HF NBEMS Demonstration

- Chuck Cribley WA8LQD - COM-L, Logistics Section Chief, Region III IMT member
- Kevin Boxey KB8TAR - Lapeer County Emergency Coordinator
- Dave Wallick N8LBF - District 3 Emergency Coordinator

Pactor and WinLink - Using HF for radio email and NTS traffic

- John Wehmer WB9JSR
- Jeff Miller, MI Assistant Section Traffic Manager – Michigan VHF Traffic Net

ARRL Forum - All Section Staff and Division Leadership and Guests are welcome to participate in an open discussion regarding happenings in Amateur Radio and within the Great Lakes Division and the Michigan Section.

- Larry Camp - Section Manager and Section Staff

Leadership and Decision Making Forum - A group of Emergency Managers will host a discussion on getting the leadership roles and decisions right.

Mark your calendars now!

From WB8WKQ, MI Asst Section Traffic Manager:

Greetings to the fine Public Service volunteers of Michigan:

As you well know, we are always battling to maintain our portion of the spectrum. In order to have the use of these great frequencies, we have to show that we are a worthy public service. NTS, The National Traffic System, is one such public service. It really "is" the history of the American Radio RELAY League.

Here in Michigan, we are extremely lucky to have and be able to access the Link Repeater System (W8IRA). This system has allowed us to conduct a nearly statewide net called the Michigan VHF Traffic Net. It has a great history and a fantastic coverage of the state.

This net meets every Monday, Wednesday and Friday night at 9 pm local time on any and all of the Linked Repeat System frequencies. You need not have to take traffic, nor bring traffic. Your simple check-in will be greatly appreciated. It does not take up much of our valuable time, but it is extremely valuable, for it helps our statistics and therefore our perceived readiness to Michigan officials of our commitment to public service.

Please join Bob, K8RDN, who already does so much service for our state, and everyone else on the Michigan VHF Traffic Net for this great net.

You might also learn valuable skills about message handling and net control procedures. Thanks for viewing this and hope to see you on the nets!

73,
Jeff Miller WB8WKQ
MI ARRL Assistant Section Traffic Manager.
You can contact Jeff at wb8wkq@arri.net

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 March, 2016: WB9JSR 353, WB8WKQ 315, K8ED 185, WB8TQZ 123, K8RDN 86, WD8USA 46, WD8MWD 27, WB8RCR 22, N8OSL 16, KC8NFN 7, WB8R 7, N8UN 6.

Total SAR reported: 1193

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

Public Service Honor Roll (PSHR) for March, 2016:
WB8RCR 272, WB8R 237, K8RDN 190, N8OSL 171,
WD8USA 150, WB9JSR 130, WB8WKQ 120, WD8MWD
117, WB8TQZ 110, K8ED 90, NE8B 53, KC8NFN 47.

Net traffic for March, 2016:

The Michigan Net 97, Michigan Amateur Communications System 79, Michigan Traffic Net 73, Upper Peninsula Net 43, Great Lakes Emergency and Traffic Net 36, Southeastern Michigan Traffic Net 34, Michigan Digital Traffic Net 27, Thumb Mid-Michigan Traffic Net 23, Motor City Radio Club 2 Meter Net 11, Michigan VHF Traffic Net 6, Saginaw County ARES Net 4, Bay Area Regional Traffic System 2, Genesee County ARPSC Traffic and Training Net 2, District 3 ARPSC Net 2, District 3 Digital Training net 2, Red Cross Net of Greater Grand Rapids 1, District 8 Emergency Net , Branch County Emergency Net , Luce County ARES Net , Michigan Amateur Radio Public Service Corps , Northern Lower Eastern Upper Peninsula Net , Michigan ARES D-Star net .
total net traffic reported: 442

March, 2016 NTS dollar equivalent value for services: \$47,888.

March, 2016 ARPSC dollar equivalent value for services: \$186,411.

Total February, 2016 dollar equivalent value for services: \$234,299.

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

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,
Larry, WB8R

Dales Tales

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

MAY is here and soon we'll be enjoying the **Dayton HamVention**[®]. ARRL will host the ARRL EXPO again this year and we will include about 20 exhibit booths. We will also include booths from our friends at the Radio Society of Great Britain, the Deutscher Amateur Radio Club, Japan Amateur Radio League, and the Qatar Amateur Radio Society. The League is also presenting a number of forums this year. On Friday, we will host "The ARRL Laboratory- Behind the Scenes", and "Amateur Radio and the Law". Saturday will include "ARRL National Parks on the Air" and the "ARRL Member Forum". Sunday's forums are "Maximizing your ARRL Field Day Effort" and the "Amateur Radio Disaster and Emergency Communications Panel".

As the Great Lakes Division is the hosting division, I will have the opportunity to moderate the ARRL Member Forum and have booked the League's "Heavy Hitters" as guest speakers. We will hear commentary from ARRL President Rick Roderick K5UR, ARRL CEO Tom Gallagher NY2RF, 1st VP Greg Widin KØGW, 2nd VP Brian Milesosky N5ZGT and our International VP Jay Bellows KØQB. These people are on top of the latest happenings in our hobby and this is the perfect setting for everyone's introduction to the League's new leadership team. We will also include a member Question and Answer Session. Last year's Forum was a full house, and with our new team in place this year, this is an ideal opportunity to introduce and discuss new ideas and plans. Every one of our guest speakers will also be spending time at the ARRL EXPO.

Do take to opportunity to stop at the EXPO's Meet-and-Greet area to say hello.

We plan to have many of our Headquarters staff on hand as well. They will be present at the EXPO Booths to dis-

cuss your ideas and concerns and help you with your special interests. Here is the EXPO booth line-up: ARRL Development/Foundation, Education and Technology, ARRL Lab, Radiosport/DXCC, National Parks on the Air, Public Service, ARRL VEC, ARRL Store, ARRL Logbook of the World, NTS, Advertising, RFinder, ARRL News, Amateur Radio Parity Act, Scouting, Discover the HF Experience, US Bank and Liberty Mutual Insurance, Field Organization/Ohio Section, Youth Rally, and IARU. Remember the dates, May 20 -22.

KUDOS to the Dial Amateur Radio Club as they celebrate their 75th Anniversary. Based in Middletown, OH, they recently hosted their Anniversary Party and displayed many interesting memorabilia from the club's history, including several hundred video slides collected and compiled for the occasion. Ohio SM Scott N8SY, Vice Director Tom W8WTD and I were pleased to attend and help the club celebrate.

NVIS Test: Ohio SM Scott Yonally N8SY reports that the planned NVIS event went very well last weekend. There were many participants cross Ohio and a number of neighboring states. The object was to simply have fun making contacts with an NVIS (near vertical incident sky-wave) antenna system and allow everyone to find out how well these low-to-the-ground antennas actually work. Scott's question is now: "Is there any interest in making this a national event?" Let him know at n8sy@arrl.net.

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

April was the month for club meetings –for me, at least. More than I usually go to in several months. But a good opportunity to observe the health of amateur radio around here. These were very different events, with a variety of topics and attendance. All of the participants

were engaged and interested in whatever aspect of ham radio was being presented.

Two events stand out. One was a celebration –75 years for the DIAL radio club of Middletown, Ohio. There was a proclamation and a visit from the Mayor of Middletown, and some of us representing the ARRL were there as well. The club is aware of its history. They have a long tradition of education and helping people once they get licenses. They do Field Day and other events together. Seems like a strong club. All the best, ladies and gentlemen, and keep up the good work!

Maybe because it's a little more rural, I was surprised by the turnout at the Highland Amateur Radio Association's meeting. People came from several surrounding counties. But then when you look at the effort they put into education, it's not so surprising. In the month or so before the meeting, classes were held, and the week before the meeting 28 people took tests, some of them for upgrades, and 18 new people got licenses. Given the level of involvement during the meeting and afterwards, I'd say that most of those people will be on the air and quite active in ham radio over the next year.

At two of the other meetings, there were technical presentations. We can't all be involved in all aspects of ham radio, but when people are willing to share new technologies, then we all find what interests us and what doesn't. That's what keeps us coming to meetings, and gets us on the air in new modes, or variations of old ones.

If you're reading this and you don't belong to a club, think about joining one. And if you belong already, pitch in, get active, and meet some of your fellow hams or help someone new in the hobby. With the Dayton Hamvention® coming up, stop by your club's table, or go to a forum and learn something new. And while you're at it, come and meet your Division and Section leadership teams, and meet some of the new ARRL leaders at the ARRL Expo. See you there!

73, Tom W8WTD Vice Director, Great Lakes Division

AMATEUR RADIO PARITY ACT: Our Legislative Action Team is continuing its efforts to achieve passage of these bills in the House and Senate.

You can find the latest 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: ARRL, Attn: Amateur Radio Parity Act grassroots campaign, 225 Main St., Newington, CT 06111. Our Legislative Action Team will hand deliver the letters, thus avoiding delays caused by the postal inspection system in DC.

ARRL SANCTIONED HAMFESTS: Here is the current Great Lakes Division ARRL Sanctioned Hamfest Schedule covering the next few weeks. These swaps have received their sanctioning approval from ARRL HQ at the time of this publication. We have approximately 65 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!

May 7 - Cadillac - Cadillac, MI

May 14 - Chassell Hamfest - Chassel, MI

May 20-22 - Dayton HamVention - Dayton, OH

May 28 - Ashland - Ashland, KY

June 4 - Fulton County - Tedrow, OH

June 4 - Princeton Hamfest - Princeton, KY

June 5 - Portage Hamfair - Ravenna, OH

June 11 - Luce County - Newberry, MI

June 18 - Midland Hamfest - Midland, MI

June 18 - Milford Hamfest - Milford, OH

June 19 - Monroe Hamfest - Monroe, MI

73, See you on the bands.

Dale Williams WA8EFK

Director

Great Lakes Division

ARRL PROPAGATION BULLETIN

Propagation Forecast Bulletin 19 ARLP019 From Tad Cook, K7RA Seattle, WA May 6, 2016 To all radio amateurs

SB PROP ARL ARLP019
ARLP019 Propagation de K7RA

Solar activity increased last week, making one of those occasional upticks on the way down from the peak of the solar cycle.

Average daily sunspot numbers increased from 43.3 to 74.7, and average daily solar flux increased by 10 points to 91.9. Average planetary A index went from 9.4 to 11.3 and average mid-latitude A index went from 11.6 to 10.7.

At 0415 UTC on May 2 the Australian Space Forecast Centre issued a geomagnetic disturbance warning. At the end of the day, the planetary A index was 31, indicating a geomagnetic storm.

The latest forecast has solar flux at 90 on May 6, 85 on May 7-12, 90 on May 13, 95 on May 14-15, 90 on May 16, 82 on May 17-22 and 85 on May 23, 90 on May 24, 95 on May 25-28, then 90, 95 and 105 on May 29-31, 110 on June 1-2, 105 on June 3, 100 on June 4-6, and 95 on June 7-11. Solar flux is forecast to drop below 90 on June 12 and beyond.

Predicted planetary A index is 8 on May 6, 12 and 18 on May 7-8, 25 on May 9-10, then 20 on May 11, 8 on May 12-13, 12 on May 14 and 5 on May 15-18, and 12, 15, 12, 8, 5 and 10 on May 19-24, and 5 on May 25-27. The next active days are June 6-8, when the planetary A index is expected to be 18, 25 and 20.

The OK1HH geomagnetic activity forecast for the period May 6-June 1, 2016. The geomagnetic field will be:

Quiet on May 7-8, 16-17, 26-28, June 1
Mostly Quiet on May 9, 14, 18, 22, 29, 31 Quiet to Unsettled on May 6, 13, 21, 23-25 Quiet to Active on May 12, 15, 19-20 Active to Disturbed on May 10-11, 30

Increases in the solar wind from coronal holes are expected on May 7, 12-14, (17,) 22-26, 31, and June 1.

Parenthesis means lower probability of activity enhancement.

David Moore sent a link to an article titled, "Spectacular Solar Flare Captured in New NASA Video." The link is, <http://huff.to/236Xxl8>. The flare occurred on April 17. That day, the high latitude College A index (measured at Fairbanks, Alaska) was 33. But a few days earlier the index was higher, at 45 and 47 on April 13-14.

As the season shifts toward Summer, you may notice some changes in HF propagation. For instance, on 15 meters from California to Japan, back at the Vernal Equinox you would see good strong signals, with openings beginning around 2100 UTC and fading out around 0430 UTC. The path should be open 75-100% of the time from 2130-0300 UTC. But by the middle of this month you might see signals several dB lower and the path not as robust, with the probability of openings being more toward the 50-75% range. Openings would begin around 2000 UTC and signals should start getting weaker after 0300 UTC.

On 40 meters over the same path at the Vernal Equinox (around March 23) we would see the band start to open after 0630 UTC with strong signals through the night until around 1530 UTC. But by the middle of May, the period that this path is open is much shorter, starting around 0830 UTC and fading out after 1400 UTC.

Looking the other direction, from California to Atlanta, Georgia during the Spring, the strongest 40 meter signals over that path would be between 0230-1200 UTC. But by the middle of May that opening would shift to 0300-1030 UTC.

You can play with these numbers yourself, varying seasons, locations and frequencies by using a propagation prediction program. A free one, W6ELprop, is available from K9LA. His web site is <http://k9la.us/> and he has lots of useful information on radio propagation. The link to propagation programs is at <http://k9la.us/html/tutorials.html>. An alternate source is at <http://brucerichards.com/army/w6elprop.htm>.

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/>.

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 April 28 through May 4 were 84, 82, 82, 76, 75, 57, and 67, with a mean of 74.7. 10.7 cm flux was 94.9, 92.4, 94, 92.2, 89.8, 90, and 90.1, with a mean of 91.9. Estimated planetary A indices were 5, 4, 7, 16, 31, 11, and 5, with a mean of 11.3. Estimated mid-latitude A indices were 6, 3, 9, 16, 26, 11, and 4, with a mean of 10.7.

ARRL DX NEWS

DX Bulletin 19 ARLD019
From ARRL Headquarters
Newington CT May 5, 2016
To all radio amateurs

ARLD019 DX news

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

EASTER ISLAND, CE0. Martin, LU9EFO is QRV as CE0Y/LU9EFO until May 13. Activity is on the HF bands using CW, SSB and various digital modes. QSL direct to F4BHW.

CAPE VERDE, D4. Stephan, DL3GCS is QRV as D44TS from Fogo Island, IOTA AF-005, until May 10. Activity is on the HF bands and 6 meters. QSL to home call.

PALESTINE, E4. Jan, DL7JAN, Daniel, DL5YWM and Bodo, DF8DX will be QRV as E44QX from Jericho from May 8 to 15. Activity will be on 80 to 10 meters using mostly CW with some SSB and RTTY. QSL via DF8DX.

NIUE, E6. Nobuaki, JA0JHQ is QRV as E6AC until May 10. Activity is on 160 to 6 meters using CW, SSB and RTTY. QSL direct to home call.

MARTINIQUE, FM. Gerd, DL7VOG is QRV as FM/DL7VOG until May 11. Activity is on the HF bands. QSL to home call.

JERSEY, GJ. A group of operators are QRV as MJ/ON4RSX from St. Brelade, IOTA EU-013, until May 8. Activity is on 40 to 6 meters using CW, SSB and various digital modes. QSL direct via ON8VP.

ITALY, I. Guenter, DL3NBI is QRV as IA5/DL3NBI from Isola del Giglio, IOTA EU-028, until May 13. Activity is holiday style on 80 to 10 meters. QSL direct to home call.

CZECH REPUBLIC, OK. Special event station OL700KAREL will be QRV from May 9 to June 8 to commemorate the 700th birthday of Charles IV, King of Bohemia and Holy Roman Emperor. QSL via bureau.

DENMARK, OZ. Rene, DL2JRM is QRV as OZ/DL2JRM from Bornholm, Christiansoe, and Frederiksoe Islands, IOTA EU-030, until May 8. Activity is on the HF bands. QSL to home call.

NETHERLANDS, PA. Members of the VERON Chapter Hoeksche Waard are QRV with special call PI35VHW until the end of May to celebrate the 35th anniversary of their group. Activity is on the HF and VHF bands using CW, SSB and various digital modes. QSL via PD2GSP.

POLAND, SP. Special event station SN200SGGW is QRV until the end of 2016 to celebrate the first university courses in agriculture at Warsaw's university 200 years ago. QSL via SP5TAT.

CRETE, SV9. Uli, DJ9XB will be QRV as SV9/DJ9XB from May 10 to 20. Activity will be holiday style on 40 to 6 meters using RTTY and JT65. QSL to home call.

EUROPEAN RUSSIA, UA. A number of stations will be using the prefix R16 during the Ice Hockey World Championships from May 6 to 22, with each call representing the participating nations and match locations. QSL via operators' instructions.

INDIA, VU. San, VU2WH, Kiran, VU3KPL and Manoj, VU2CPL are QRV as AT5P from Rameswaram Island, IOTA AS-173, until May 9. Activity is on 40 to 10 meters using CW and SSB with two stations active. QSL via NI5DX.

BURKINA FASO, XT. Harald, DF2WO is QRV as XT2AW from Ouagadougou until May 15. Activity is holiday style on all bands, depending on the propagation, using CW, SSB, RTTY, PSK31 and JT65. QSL direct via M0OXO.

NICARAGUA, YN. Ilias, TG9IIN is QRV as YN3/TG9IIN from Leon until the end of July. Activity is on the HF

bands using SSB, RTTY, PSK and JT65. QSL direct to home call.

THIS WEEKEND ON THE RADIO. The New England QSO Party, 10-10 International Spring CW Contest, NCCC RTTY Sprint, NCCC CW Sprint, Microwave Spring Sprint, F9AA PSK Cup, ARI International DX Contest, SKCC Weekend CW Sprintathon, 7th Call Area QSO Party, Indiana QSO Party, Delaware QSO Party and the FISTS Spring Slow Speed CW Sprint will certainly keep contesters busy this upcoming weekend.

The Phone Fray, CWops Mini-CWT CW Test and RSGB 80-Meter Club Data Championship are scheduled for May 11.

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

Please see May QST, page 79, and the ARRL and WA7BNM Contest Web Sites for details.

CLASSIFIED

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:**

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(906) 774-5463
tmartin@chartermi.net

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Scott Jarmusch, KA8TFF

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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.

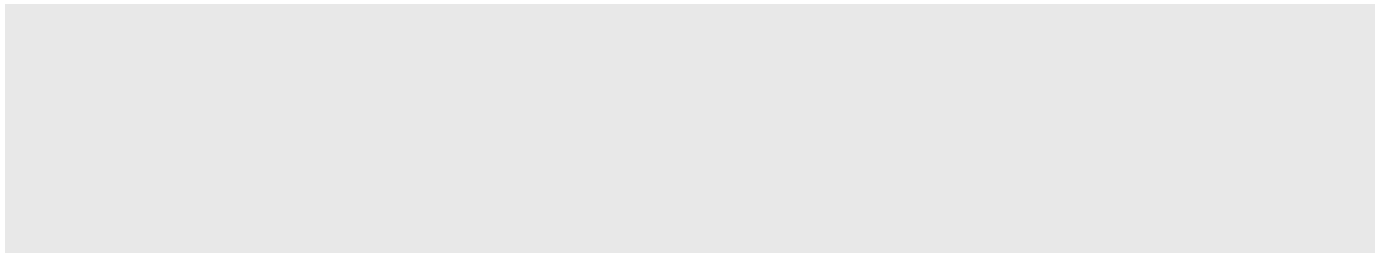
I will be thankful if and when I do make a contact.

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
N9MBG	FRY	ED	PEMBINE	906-221-7307	efry@centrylink.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





MICH - A - CON

Please remit dues to:

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

Name: _____

Call Sign: _____

Address: _____

City, State, Zip: _____, _____, _____

Email Address: _____

Phone: _____

ARRL Member? Yes _____ No _____

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

Annual dues for Full Membership -

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

If family membership, please list additional:

Names: _____

Call signs: _____

City, State, Zip: _____

Annual dues are Payable January 1st.

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