



MICH-A-CON

Iron Mountain,
Dickinson County, Mich

Junr 2017

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

Which is **June 14, 2017** at **07:00 PM** at the **Dickinson Library, Iron Mountain.**

Please be there and support the cause of Amateur Radio.

From The President

Every month I find it difficult to come up with some “words” of wisdom for this newsletter. If I don't have antenna problems, or new DX to write about, I struggle to find the “words”. Pun intended. HI!

Still no fix for the SteppIR. I'm hoping to find a climber to check the connections at the top of the tower. I am rebuilding my 40 meter beam that was lost back in 2008. As I look at the driven element on the ground, I'm wondering how I will ever get it back on the tower above the SteppIR. I used an 80 foot bucket truck back in 2001 to lift all of my beams. Unfortunately, that truck is no longer available.

I'm glad that all of these issues are happening in June. June, July, and August are not prime ham radio months for me. Also, there is very little DX to work during those months. Activity. Lately, seems to be on 6 meters but, without the SteppIR, I can't operate on that band.

I'm mulling an idea for the newsletter and my “Words” column. I think that it would be a good idea to get to know club members a little better. Unless it's at events such as Field Day, or Veterans Day, and at a meeting once a month, we really don't know much about our membership. I propose a QSL card, or two a month with a brief bio (50 words or less) of each member. If you don't have a QSL card, a “selfie” of you in your shack, or posing with your mobile radio/hand-held would suffice.

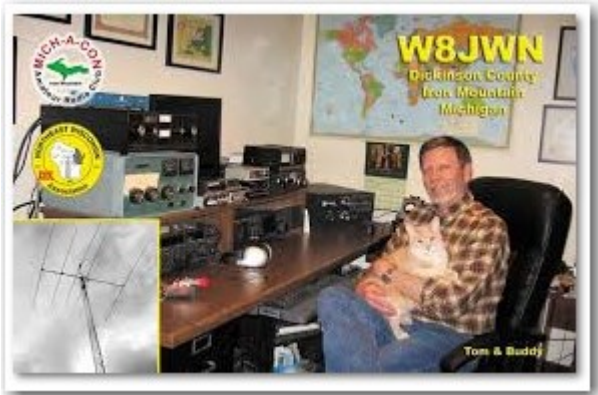
We can discuss this at the next meeting, Wednesday at **6:30** in the library. Remember that we are now on the summer schedule.

I'm looking forward to Field Day, where I can operate with a beam antenna that actually works!!!

73,
Tom W8JWN

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MICH-A-CON AMATEUR RADIO CLUB MINUTES OF May 10th, 2017

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

Secretary Report

Minutes of the April 12th meeting were read and approved.

Treasurer Report

Balances as of May 10, 2017

Checking -\$67.91

Savings -\$2123.87 (Repeater - \$388.95)

Cash - \$22.00

Repeater Report

Bob Meyers reported that the 2 meter repeater is working well. However, the 440 repeater has poor SWR. The antenna could possibly be the problem.

Bob presented a bill for the repeater controller (\$450). A motion to pay Bob \$450 (Terry Moriarity/Bill Grabowski) was approved. Bob also presented a bill for the new 440 repeater. Bob said that in lieu of payment he would accept a 5-year family club membership. A motion (Terry Moriarity/Bill Grabowski) to that effect was also approved.

Old Business

A discussion regarding ARRL Field Day (June 24 & 25) will be taken up at the June meeting.

Instructions for building the J-Pole antenna, introduced by Tom Martin at the April meeting, are now on the club web page.

The club storm spotter list was updated. Bill Grabowski, Jr. will man the Crystal Falls site and Duane Lundamo will handle Norway Mountain. The Keyes Peak site is still available.

New Business

It was reported that Inez Riverside would like to donate something to the club. After discussion, it was decided that a cash donation would be fine.

Burt Armbrust inquired if there was interest in having a 6 meter repeater. No interest was indicated.

Club insurance is now handled by the Danielson Insurance Agency since the Holmberg agency going out of business. Current premiums are \$501.00. Debbie Grabowski reported that other clubs have lower insurance costs. She will look into this and report back.

Adjournment

The meeting was adjourned at 7:30 pm. (Burt Armbrust/Scott Jarmusch)

The 50/50 drawing was won by Scott Jarmusch. The club treasury was enriched by \$23.00.

For the Good of the Order

Attendees reported on their recent activities.

Submitted by Joe Ferris

Attendees

Tom Martin, W8JWN
Scott Jarmusch, KA8TFF
Burton Armbrust, Sr., WB8EBS
Gary Schafer, K4FMX
Bob Meyers, WA8FXQ
Bill Grabowski, KD8VTT
Debbie Grabowski, KD8VTS
Terry Moriarity, K9TRY

Sam Holmes, N8ATS
Tim Miller, N8TUM
Jason Leslie, WK9U
Duane Lundamo, KE8GHE
Bruce LaLiberte, KD9HQD
Ed Armbrust, W8XBO
Joyce Williams, Visitor

News

----- Forwarded Message -----

Subject: Mich-A-Con Minutes, May 10, 2017 - Invitation to edit

Date: Sat, 10 Jun 2017 20:14:17 +0000

From: Joe Ferris (via Google Docs) <kc9tqr@gmail.com>

Reply-To: Joe Ferris <kc9tqr@gmail.com>

To: tmartin@chartermi.net

Joe Ferris has invited you to **edit** the following document:

 [Mich-A-Con Minutes, May 10, 2017](#)



Hi Tom,

Here are the minutes for the May meeting.

I don't know if you heard Debbie Grabowski ask me to include news that Jim Rye is in the Crystal Falls nursing home. I will pass that to Tom Heyboer and have him include it in the newsletter. - - If it was an announcement made at the May meeting, I will add it to the minutes. If not, perhaps it might be an agenda item for Wednesday.

Have you been working any 6 meters? I thought I might pick up a few QSOs with the ARRL VHF contest this weekend, but not hearing much, only worked 1.....WK9U....real DX.

73

Joe

[Open in Docs](#)



Michigan Proclamation for Amateur Radio

We recently received a proclamation from Michigan Governor Rick Snyder declaring the week of June 19 – 25 to be Amateur Radio Week in Michigan.

A PDF copy of this proclamation is available for download on the Michigan ARRL website located at www.mi-arrl.org.

A copy of the Amateur Radio Week Proclamation is perfect for distribution to the elected officials in your community, your EM, local media outlets, and in printed form, for use at your Field Day information table. I am sure there are many additional uses beyond what is listed above.

Please take a few minutes to read the proclamation and by the fact that the State of Michigan and Governor Snyder have issued this proclamation, you will see the

relationship that exists between the State of Michigan and the amateur radio operators of Michigan. By and large this relationship exists because of the thousands of hours that are expended each year by the amateurs of Michigan on behalf of their fellow citizens.

Take pride in Amateur Radio Week in Michigan and be sure to publicize this wherever and whenever you can. You deserve being in the spotlight!

Thanks go to each and every Michigan amateur who provides public service to his or her fellow citizens.

73,

Larry, WB8R

Michigan Section Family Outing July 7 & 8

Greetings to the hams of Michigan.....

We are just one month away from Michigan's famous weekend in the woods! Some might say infamous weekend, but that is a topic for another discussion at another time.

We are planning a great family weekend at the Woodlands Conference Center and Campground located near Hale, Michigan, which is about 20 miles from West Branch. in the woods of northern Michigan.

The Woodlands consists of approximately 400 acres of the best Michigan has to offer.

We are planning two days of fun for the family. We will have a number of ham radio related activities available.

The 2017 version of the annual Michigan Emergency Coordinator's meeting will be the primary focus on Saturday with a great list of topics and speakers.

The Section Outing website at www.sectionouting.info will be updated shortly, but in the meantime, you can find a pair of flyers on the Michigan ARRL website located at www.mi-arrl.org.

BTW, the MI ARRL website is where you can find all sorts of information about what is happening in Michigan, including my monthly Section News column.

For now, 73,

Larry, WB8R
Michigan Section Manager

MESSAGE FROM DX ADVISORY COMMITTEE

Greetings,

Stan Arnett AC8W is the Great Lakes Division Representative to the ARRL DX Advisory Committee (DXAC). Stan is asking for comments and suggestions from DXers and interested parties in the Great Lakes Division, as the DXAC considers an important question.

From Stan:

The DX Advisory Committee has been tasked with examining the DXCC ethics rule, specifically with regard to use of remotely operated stations. I am seeking input from DXers from the Great Lakes Division.

I have been told that "there is well known use of US and other remotes by foreign operators who were not properly identifying and were claiming contacts made via US-based remote stations for credit on contacts that were impossible given propagation issues particularly on 6, 2, and 160 meters. There was repeated mention of a perceived problem with "propagation shopping" by the use of remote stations such that again, contacts were being claimed on bands and conditions which were virtually impossible given propagation limitations at the time. There were concerns that there are stateside stations who work contests while using their own station while simultaneously controlling a remote station, and "breaking the pileup" on 160 meters for example using the remote station located (let's say, in the Northeast) while the actual station working the contest is working from a location in the Midwest and using the remote station to break through the pile-up and then the actual Midwest location to complete the contact and make the report, and other similar concerns."

Our specific tasking is:

"Please consider potential ethical issues with regard to legal, remote-controlled operations, and how these operations comport with DXCC rules. Then, please consider DXCC Rule 11"

11. Issues concerning remotely controlled operating and DXCC are best dealt with by each individual carefully considering the ethical limits that he/she will accept for his/her DXCC and other operating awards. As the premier operating award in Amateur Radio, DXCC draws intense scrutiny from its participants. As DX chasers climb up the Standings there will be increased attention given to these achievements and the owner of these achievements needs to be comfortable standing behind his/her award and numbers. Peer attention has always been a part of awards chasing, of course, but in these times with so many awards and so many players, it is more important than ever to "play the game" ethically.

"Technological advances, while welcome, also add to the difficulty in defining rules for DXCC, but the intent of the rules is what is important. It is never OK to remotely use a station outside of the "home DXCC entity" to add to the home-entity DXCC totals – just as it is never OK for you to ask someone else at another station in another place to make QSOs for you. Remotely controlled stations must be properly licensed if they are to count for DXCC. It will continue to be up to the operator to decide what types of legal remote control operating he/she will use (if any) to contribute to an operating award."

If you have suggestions or comments relative to the ethics issue and the use of remote control I would appreciate your input. Please provide any recommendations for changes to the rule, which would improve the rule and the way participants use remotely controlled stations. Please restrict comments to ethical issues only.

If you feel no change is needed that is a valid response.

Deadline for comments to me is Monday, May 15. I will compile synthesize responses for the DXAC.

Stan Arnett II, AC8W
Great Lakes Representative DXAC
ac8w@comcast.net

ARLB032 W1AW 2016/2017 Winter Operating Schedule

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

Morning Schedule:

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

Daily Visitor Operating Hours:

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

Afternoon/Evening Schedule:

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

Frequencies (MHz)

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

Notes:

CWs = Morse Code practice (slow) = 5, 7.5, 10, 13 and 15 WPM
 CWf = Morse Code practice (fast) = 35, 30, 25, 20, 15, 13 and 10 WPM
 CWb = Morse Code Bulletins = 18 WPM

CW frequencies include code practices, Qualifying Runs and CW bulletins.
 DIGITAL = BAUDOT (45.45 baud), BPSK31 and MFSK16 in a revolving schedule.

The voice mode used for W1AW's 40 meters voice bulletins is now full-carrier, double sideband AM.
 Code practice texts are from QST, and the source of each practice is given at the beginning of each practice and at the beginning of alternate speeds.
 On Tuesdays and Fridays at 2330 UTC (6:30 PM EST), Keplerian Elements for active amateur satellites are sent on the regular digital frequencies.

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

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

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

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

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

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

ARRL MICHIGAN SECTION NEWS

Greetings to the Hams of Michigan,

The weather here in the most southern parts of the state is still on the cool side and we are waiting somewhat impatiently for some warmth from the sun. On the good side of things, our local weather has kept the severe weather pretty much in check thus far this spring. Take the good with the bad or the bad with the good....besides, there is nothing we can do about it.

MSPOTA

The Michigan State Parks on the Air (MSPOTA) event is off and running. The weather has an effect there and propagation, while not always horrible, seems to be tolerable. Note: read previous paragraph about things we cannot control.

Our operators in Michigan (Activators and Chasers) do have a burden to bear in that hearing each other can be very difficult because of propagation conditions. I know from personal experience that trying to hear our activators and being heard by them can sometimes be nearly impossible. Hopefully going forward conditions will improve and give us "local folks" a chance to make some MSPOTA contacts as well.

Watch our web site at www.mspota.org and our Facebook page at Michigan State Parks on the Air for current information and breaking news.

Michigan Section Family Outing

The 19th annual Michigan Section Family Outing is scheduled for July 7 & 8, 2017 at the Woodlands Campground and Conference Center near Hale, MI. This great facility is located about 20 miles from West Branch and offers the best of the north country in a relaxed setting.

The event will kick off on Friday with activities such as a fox hunt in the woods (challenging) along with various

workshops and discussions. The Woodlands has provisions for tent camping, towed campers and fifth wheels. Both primitive sites and electrical sites are available. A permanent bath house with clean showers and restrooms are present.

For those that prefer a hotel room to a tent or RV, there are good hotels located in West Branch.

Saturday will see the annual MIARPSC Emergency Coordinator's meeting with a full day of classes, workshops, and speakers on a variety of topics relative to emergency preparedness.

Be sure to get this event on you calendar!

Great Lakes HamCon at Michigan International Speedway

The largest planned ham gathering in Michigan is still in the planning process but is gathering significant steam as we move closer to the actual event. The Great Lakes HamCon will take place at Michigan International Speedway (MIS) located in the beautiful Irish Hills of Southeast Michigan on October 7 & 8, 2017. Our website is located at www.glhamcon.org and our Facebook page is GLHamCon. We are also active on Twitter....

Tickets for GLHamCon have just become available on the MIS website

here:

<http://www.mispeedway.com/About-MIS/Special-Events/Great-Lakes-HamCon.aspx>

Currently, there is a promotion that give you \$1 off your advance purchase of tickets. Ticket prices (w/o promo) are \$17 in advance and \$20 at the gate. Each ticket is good for both days, Friday and Saturday.

Children under 12 are free with a paid admission. A child's ticket must be requested when purchasing adult ticket(s). Your wristband(s) will be mailed to you prior to the beginning of the event. Wristbands MUST be worn throughout the entire event.



You will also be able to purchase your camping space and your Flea Market space(s). Camping spaces are \$35 no/electric and \$50 w/electric for Friday and Saturday nights.

As you know, event parking is free and plentiful. Included in your camping space price is parking space for one vehicle within your assigned camping space. If you have two vehicles (you have invited a guest to share your RV, etc), the vehicle that belongs to your guest will require an Overnight Parking Pass which can be purchased online as well (\$10) and he/she will have to park in the lot adjacent to the campground.

Flea Market spaces are along Pit Road and each space will measure 12 ft wide by 20 feet deep. Be advised that the MIS website currently mistakenly states 12 x 15. We will get that error fixed.

Flea Market spaces will be organized on each side of Pit Road (paved) to form a long line of spaces separated by a 20 ft aisle between the two rows of spaces. An important note is that adjacent Flea Market Spaces are available to allow larger contiguous selling space, but it is important to get your order placed early. We will be selling from the center outward on both sides, so the more delay, the farther from the center of activity you will be. You will be pleasantly surprised at the magnitude of this facility!

Located on our website at <http://glhamcon.org/> is our latest flyer. Each Club is encouraged to print copies for their members and to place the flyer on your club's website to get the word out to as many Michigan hams as possible.

While you are on the website, look around a bit and if you are interested in having a GLHamCon logo vinyl window sticker for the back window of your ride, you can see how to get one delivered to your door for the cost of an SASE!

Your GLHamCon team will have a presence at the Hamvention in Xenia this coming weekend. We have a table in Building 6 (booth 6612) and we look forward to talking with both old and new friends and look forward to answering questions about this unique event and

venue. We will have event flyers and some gifts for you to take home with you. Be sure to stop by and say hello.

Hospitality Acknowledgements

Many thanks go to the following groups for the fine hospitality shown during travels around the Section:

- May 3, 2017 St. Joseph County ARC Meeting, Centerville, MI – WB8R
- May 6, 2017 Cadillac Hamfest, Cadillac, MI – W8CT

Michigan Section Events and Staff Travel Plans

- Jun 3, 2017 IRA Hamfest, Hudsonville, MI – WB8R
- Jun 4, 2017 Chelsea Hamfest, Chelsea, MI – WB8R
- Jun 10, 2017 LARS Hamfest, Newberry, MI – WB8R
- Jun 18, 2017 Monroe Hamfest, Monroe, MI – WB8R
- July 7-8, 2017 MI Section Outing/MI EC Meeting, Hale, MI - WB8R et al
- July 22, 2017 GMARC Summer Trunk Swap
- July 22, 2017 Harrison Hamfest, Harrison, MI – W8CT
- July 29, 2017 CMARC Outdoor Swap – WB8R
- Aug 5, 2017 UP Hamfest, Escanaba, MI – WB8R**
- Aug 13, 2017 Port Huron Seaway Swap
- Aug 19, 2017 Alpena SWAP 2017, Alpena, MI
- Aug 19, 2017 Spark in the Park, Wyoming, MI – WB8R, et al
- Sep 9, 2017 GraHamfest, Wyoming, MI – WB8R
- Sep 17, 2017 Adrian Hamfest, Adrian, MI – WB8R
- Sep 23, 2017 GMARC Fall Trunk Swap
- Oct 7-8, 2017 Great Lakes HamCon, Brooklyn, MI – WB8R et al

Michigan Public Service Activities

Michigan Section Traffic/ARPSC Nets (all times local)

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

- MACS - MI Amateur Communications System 3.952 1000 Daily
- UPN – Upper Peninsula Net 3.921 1700 Daily; Noon Sun
- MIARPSC – MI Amateur Radio Public Service Corps 3.932 1700 Sun
- 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) 2000
 Tu, Th, 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 April, 2017

SARs for April, 2017: WB8WKQ 249, K8ED 242, WD8USA 159, WB8TQZ 125, N5MKY 120, WD8MWD 45, K8BKM 36, WB8RCR 19, WB8R 17, KC8NFN 11, K8JJU 4, N8OSL 4, KD8LSM 4.

Total SAR reported: 1035

Brass Pounder's League (BPL): None

PSHRs for April, 2017: K8RDN 334, K8JJU 228, WB8RCR 219, WD8USA 140, N8OSL 139, KC8YVF 131, WD8MWD 120, N5MKY 120, WB8TQZ 110, WB8WKQ 110, K8ED 90, WB8R 62, KE8BYC 51, KC8NFN 51, KD8LSM 44.

Net traffic for April, 2017: Michigan Traffic Net 128, Michigan Amateur Communications System 120, The Michigan Net 97, Southeastern Michigan Traffic Net 59, Great Lakes Emergency and Traffic Net 51, Upper Peninsula Net 46, Michigan VHF Traffic Net 18, Michigan Digital Traffic Net 7, Saginaw County ARES Net 3, District 3 ARPSC Net 2, Genesee County ARPSC Traffic and Training Net 2, Red Cross Net of Greater Grand Rapids 1, Michigan Amateur Radio Public Service Corps 1, Bay Area Regional Traffic System, District 5 Hospital Net, Michigan ARES D-Star net, District 8 Emergency Net, Branch County Emergency Net, Luce County ARES Net, District 8 Digital Emergency Net, Chelsea ARC Net.

Total net traffic reported: 535

Volunteer Hours Dollar Value:

ARPSC: \$208,036

NTS: \$38,610

Total Dollar Value December 2016: \$246,646

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

73 until next month,

Larry, WB8R

Dales Tales

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

THIS YEAR, 2017 is the "Year of the YL", a time to acknowledge the service of the Young Ladies across the globe that are licensed radio amateurs. In the Great Lakes Division, we recognize the national YL group YLRL, the Young Ladies Radio League that has a strong following in Kentucky. Founded in 1939, the YLRL is truly an international organization and includes many recognized members from across the globe.

As a matter of fact, our KY Section leadership team includes among its Public Information officers, Jeanean Hampton K5EIB the Commonwealth's Lt Governor. Information about the YLRL, can be found at: www.ylrl.org.

Many Michigan YLs hold membership in The Auto State Young Ladies (TASYLs). TASYLs were organized in 1965 as a network specifically for YLs. The aim of TASYLs is to promote fellowship and to share our mutual interest in Amateur Radio. Their TATTLER Newsletter comes out through email four times a year and is the official publication of the organization. It contains Amateur Radio and TASYL news and activities.

TASYL members meet in person 2 times a year: once in March for the annual meeting (currently at the Crossroads Hamfest in Kalamazoo) and another time in August for a potluck picnic/meeting. OMs have been known to set up a field event at the site. Members also meet on the TASYL Net each Thursday at 9:00 am (local time) on 3940.

Membership is open to all lady hams. Non-licensed YLs and OMs are invited to be associate members. Membership dues are \$5 per year. A membership application form and additional information can be found on the TASYL website at www.tasyl.net or join us on August 26, 2017 at the old schoolhouse at 4960 Portland Rd., Saranac, MI, 48881 at 11:00 am for a potluck picnic.

Ohio YLs formed the Buckeye Belles as their YL organization. The "Buckeye Burr" is a continuing publication for Ohio YLs, despite a setback in Belle membership. Susie Scott N8CGM continues to produce the Buckeye Burr regularly and asks that any interested YL contact her if she

would like to be included on the e-mail list: N8CGM@ARRL.NET.

Perhaps there is an opportunity to revitalize the Bells and get them back on a regular meeting schedule.

YLs have a lot to share with each other, as well as the OM ham population. I really want to encourage our YLs to get involved with a local YL group. Most gather on the air regularly and in person with their meetings often held at the larger hamfests. It does not take a lot of time, but the camaraderie is important and well worthwhile. YLs, please consider belonging to your local YL group.

HAMVENTION®: It really happened and congratulations go out to the Dayton Amateur Radio Association for the outstanding job. I think we all looked at this year's event with a lot of apprehension but the 600 team players at DARA pulled it off very successfully. The Greene County Fairgrounds proved a well-maintained facility, with new buildings and everyone associated with the event was friendly and welcoming. Even the rain did not seem to dampen (I had to do it) anyone's spirits. Thanks
DARA for another great Hamvention.

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

One of the key elements in getting and especially keeping new hams is training and involvement. It has come up many times in the meetings of the Entry Level License committee. It was a theme at Hamvention®, where it was mentioned by both Tom Gallagher, NY2RF, ARRL CEO, and Rick Roderick, K5UR, ARRL President. If ham radio is to survive, we need to attract new members, and just as important, we need to help them get on the air.

With Field Day coming up, we have a great opportunity to do just that throughout the Division. Clubs are already starting to make plans. I'd like to encourage not just the planning of where to put antennas and how many stations to operate, but also plans to reach out to new hams and inactive ones. It's great to have a big score and be the top in your class, but it might be more important, in the long run, to count how many hams participated at

your local event, and how many new or inactive hams learned something and took a new interest in operating.

If your club has sponsored classes and exams in the past year, have you thought about personally inviting each of your graduates to Field Day?

And even if you haven't held classes, there are ways to search the databases and get the contact information for every ham in your area.

What would it take to drop an invitation in the mail? How many less-active hams could you encourage to show up?

There are all sorts of ways to build interest. Demonstrating the art of antenna building and placement will show newcomers that antenna work is not beyond them. In fact, wire antennas work well, and can be constructed easily and designed for almost any property. One group I know has even offered to teach soldering and basic connections during the Field Day prep time.

Don't overlook an important Field Day rule, designed specifically with newcomers in mind. That is the Get On the Air (GOTA) station. Look over that section carefully. Your club can add to its total contacts by having such a station. Even new techs qualify. There are ways to use control operators and call sign arrangements that allow a GOTA station to participate fully in Field Day.

You can also add a station without changing your class if that station is dedicated to 50 MHz and higher. Should we happen to get a nice six-meter opening, you can rack up lots of contacts and points just by putting that sort of station in your operating plans. It gives you an extra station to operate, so there won't be a shortage of stations for all those new operators you plan to get out there!

And youth count! Your club can get bonus points for contacts made by young people under the age of 18. There are lots of other bonus points available. One in particular your club may wish to use is Social Media. You could attract attention (see getting new hams involved, above) and get bonus points while doing it.

In this case, reading the rules is less a matter of following regulations, and more of a matter of finding new ways operate at Field Day. Use your imagination for what you can accomplish. And have fun!

73, Tom W8WTD Vice Director, Great Lakes Division

GREAT LAKES HAMCON. Many hams in the Midwest are already familiar with this fall's plan for the ARRL Great Lakes Division Convention. October 7 & 8 will bring the new Great Lakes HamCon and our Convention to Michigan International Speedway (MIS) for the two-day event. HamCon is sponsored by the Great Lakes Amateur Radio Assn, a consortium of 18 radio clubs, formally recognized by ARRL as a "Council of Clubs" and organized as a 501(c)3 non-profit. A large flea market will be set up on "Pit Road" while vendors will be housed in permanent buildings on the infield. Additional space will be provided as needed in large tents on the infield. MIS is located in southern Michigan near the village of Brooklyn, not far from Jackson. A typical race day at the speedway accommodates more than 100,000 race fans, so parking and traffic control are well organized and managed by local officials.

This year will include a number of forums and meetings held in MIS conference rooms. HamCon is pleased to welcome ARRL president Rick Roderick K5UR to cut the opening ribbon. Forums confirmed to date include DX, Fox hunting - complete with a fox hunt, QRP Operating, Radio Propagation, Kit Building Techniques for Success, a One-Day Tech Class with FCC License Testing and the ARRL Members' Forum. The Ohio Section will also host a special ceremony for new inductees into the Royal Order of the Wouff Hong. We have several more forums planned and those will be announced over the next few weeks.

As we get closer to the fall, your Section Manager's bulletins will carry more complete information as well as what appears in Dale's Tales.

HamCon Tickets are now on sale along with camping reservations. Check the web pages at <http://gllhamcon.org/>.

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



We have approximately 65 ARRL hamfests each year in the Division. I do encourage each Hamfest Chair to register early for ARRL Sanctioning. Be sure to invite your ARRL Officials as soon as your date is set.

- Jun 3 - IRA Hamfest - Hudsonville, MI
- Jun 3 - Fulton County - Tedrow, OH
- Jun 3 - Princeton Hamfest - Princeton, KY
- Jun 4 - Chelsea Hamfest - Chelsea, MI
- Jun 10 - Luce County - Newberry, MI
- Jun 10 - Union County - Marysville, OH
- Jun 17 - Milford Hamfest - Milford, OH
- Jun 18 - Monroe Hamfest - Monroe, MI
- Jun 24 & 25 - FIELD DAY
- Jul 8 - GARS Hamfest - Germantown, OH
- Jul 9 - 20/9 Tailgate - Austintown, OH
- Jul 16 - Van Wert Hamfest - Van Wert, OH

- Jul 22 - Harrison Hamfest - Harrison, MI
- Jul 22 - GMARC Tailgate - Shelby Twp, MI
- Jul 22 - Big Sandy Hamfest - Louisa, KY
- Jul 29 - CMARC Outdoor Hamfest - Lansing, MI
- Jul 30 - Portage Hamfest - Ravenna, OH

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

73, Let's be radio-active!

Dale Williams WA8EFK
 Director
 Great Lakes Division

ARRL PROPAGATION BULLETIN

ARLP023 Propagation de K7RA
 QST de W1AW
 Propagation Forecast Bulletin 23 ARLP023 From Tad Cook, K7RA Seattle, WA June 9, 2017
 To all radio amateurs

Big event this week was multiple sporadic-E linkups on 6 meters yesterday.

Average daily sunspot number rose this week from 15.6 to 19.3. This was largely due to the fact that there was one zero-sunspot day last week, and no days with zero sunspots this week.

Average daily A index, planetary and mid-latitude were both 5.6 this week. Last week they were 13.3 and 10.6.

Predicted solar flux is 72 on June 9 and 10, 75 on June 11 to 13, 72 on June 14 and 15, 78 on June 16 to 26, 80 on June 27 to July 1, 78 on July 2 to 8, 80 on July 9, and 78 on July 10 to 23.

Planetary A index is predicted at 5 on June 9 to 11, 8 on June 12 and 13, 5, 12, 25 and 10 on June 14 to 17, 8 on June 18 and 19, 5 on June 20 to July 10, then 10, 12, 25 and 10 on July 11 to 14, 8 on July 15 and 16, and 5 on July 17 to 23.

Field Day weekend, June 24 and 25 shows a changed prediction for June 23 to 25 with a solar flux at 78, and planetary A index of 5 on all three days. This is improved from last week's forecast in ARLP022 which projected a higher geomagnetic (A index) forecast and lower solar flux.

Our usual Czech source for geomagnetic forecasts is away this week, so here is another Czech resource with predictions for only the next week:

"Geomagnetic activity forecast for the period June 9 to June 15, 2017:

- Quiet: Jun 9 to 12, 14 and 15
- Unsettled: Jun 13 and 14
- Active: Jun 14 and 15
- Minor storm: possible Jun 15
- Major storm: 0
- Severe storm: 0

Geomagnetic activity summary:

Except the last days, we expect at most quiet to unsettled conditions till the next week. From June 13 and 14 the unsettled conditions may be more frequent but the general activity forecast should remain at the quiet to unsettled level.

Because the last flare occurred at the central part of solar disk, we expect an active episode at the end of the forecast period. About June 15, active conditions can also reach minor storm level.

Tomas Bayer, RWC Prague
Institute of Geophysics of the ASCR, Prague Department of Geomagnetism Budkov observatory (BDV)"

AC4G, Bruce Smith of Taft, Tennessee wrote:

"Just wanted to inform your readers that on 7 June at approximately 2100z, I heard PA2M (Netherlands) calling CQ into my area EM65, southern Tennessee. I went down to 50.081 called CQ (CW) and began working many European stations on 6m. When the bands finally faded after about 2 hours, I ended up making QSOs with 18 European stations such as PA, G, GM, and GD (were the main areas worked)."

Jim Wilson, K5ND of Grapevine, Texas wrote:

"I'm sure you're getting plenty of comments about the recent openings on six meters. I've observed daily openings into Europe, with no luck from Texas. But this afternoon was able to work into Japan for the first time ever, running 100 watts, JT65, into a Moxon antenna at 25 feet. I wrote up my experience, along with screen shots, at <https://www.k5nd.net/2017/06/six-meters-once-more-magic/>

I look forward to hearing what your other readers are experiencing.

73, Jim Wilson, www.k5nd.blog"

According to Rick Lindquist, WW1ME, K5ND is the organizer of the annual Boy Scout Jamboree on the Air. Check out the K5ND bio at QRZ.com, and of course his blog at www.k5nd.blog.

Dick Ferry, K2KA of Westford, Massachusetts wrote:

"On June 7, 2017 was another epic opening on 6M. I have never seen the band lit up like that before. NA working NA, mid-west NA working EU. I worked 32 NA stations (wasn't hearing EU) and 2 new states (Idaho and Wyoming). All signals were strong. Mid-west was working JA too, so was EU. Wall to wall stations 2230Z to well beyond 2359Z.

Today June 8 the band has been open all morning again, but there does not seem to be as much activity. We'll see how it goes.

Hoping these great conditions extend into the weekend during the ARRL June VHF test."

W3IUU wrote:

"SWPC.NOAA.GOV does some nice alerts, watches and warnings for ionospheric and flare events above the R1, S1 or G1 levels. I should have saved the report for May; it is in reverse chronological order for a month at a time. Anyway, it showed that the K index went to 5 just after 2200Z on the May 27, as I remember, to 6 after 2300Z, and to 7 at I think around 0430Z.

Around 0300Z we had strong signals from the Washington, DC area to several points west on 20, and to the west coast and out to ZL and VK on 15. WWV was very loud on 20 MHz, with some flutter on their signal; but not really audible on 25 MHz. One Texas beacon was still copiable on 10 meters; I probably missed a lot of 10-meter action before or after that time.

Having heard some of this during severe disturbances in the late 1950s while living in Iowa, I think some of this is auroral E layer propagation, multi-hop in some cases. At least the E layer needs to be factored into the mix.

73, Lloyd Rasmussen, W3IUU, Kensington, MD
<http://lras.home.sprynet.com>"

George Hall, N2CG of Saddle Brook, New Jersey wrote in a message titled "June 7 2017 Long Hours of Single and multi-hop 6 meter E's openings":

"I'm located in Northern New Jersey FN20wv and I knew earlier in the day on June 7th that there was ongoing US East Coast and Midwest 6m openings to Europe by observing the spotting websites on my tablet at work. However by the time I got home from work at 6 PM EDT (2200Z) the band shifted to single and double hop Es openings over a large part of the US and Canada.

A few minutes after 2200Z I turned on my rig and I immediately started hearing the VE4VHF beacon in Winnipeg,



MB EN19 on 50.036 MHz with a true 599+ signal report. Shortly after I began tuning around and began hearing several more beacons, all with RST 589 to 599+ signals as follows: W9JN/B 50.062 MHz EN54, N8PUM/B 50.068 MHz EN66, and KOKP/B 50.073 MHz EN36. So, based on the signal strength of these beacons I knew I was in store for a good 6m band opening but had no idea how long this opening would last.

During the course of the next 6-1/2+ hours I worked on CW or SSB mode stations in WA, OR, MT, ID, WI, MN, IL, KS, MO, TN, KY, GA and AL. I most likely would have easily worked more stations but I had to go QRT for over 2 hours and when I got back on the air at 0035Z (08 June) I thought perhaps the "wireworks" would be over... but that was NOT the case. I was pleasantly surprised to hear the band was still wide open to the Midwest as well as the Pacific Northwest. Around 0130Z I started hearing the NOLL beacon on 50.078 MHz in EM09 and remained coming in to my QTH for over 2 hours with signal strength ranging from RST 559 to 579.

I don't work the JT digital modes but I know those ops were also very busy because I monitored their frequencies (50.276 to 50.280 MHz) several times during the opening and I could hear their warbling signal tones indicating much JT digital mode activity.

The 2017 Es Season started off very slow for me and I missed the big Es opening to Europe and elsewhere when I was attending the Hamvention in Xenia Ohio a few weekends ago. This June 7th Es opening sure made up for my slow start of this year's Es Season for me."

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

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

Monthly propagation charts between four USA regions and twelve overseas locations are at <http://arrl.org/propagation>.

Instructions for starting or ending email distribution of ARRL bulletins are at <http://arrl.org/bulletins>. Sunspot numbers for June 1 through 7, 2017 were 18, 19, 22, 23, 22, 18, and 13, with a mean of 19.3. 10.7 cm flux was 75.7, 78.2, 77.9, 77.7, 79.4, 75.4, and 75.5 with a mean of 77.1. Estimated planetary A indices were 7, 5, 9, 3, 5, 5, and 5, with a mean of 5.6. Estimated mid-latitude A indices were 6, 6, 9, 3, 5, 5, and 5, with a mean of 5.6.
NNNN

ARRL DX NEWS

QST de W1AW
DX Bulletin 23 ARLD023
From ARRL Headquarters
Newington CT June 8, 2017
To all radio amateurs

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

MALTA, 9H. Haru, JA1XGI is QRV as 9H3XG until June 12. Activity is on 40 to 15 meters using CW and RTTY. QSL direct to home call.

BAHAMAS, C6. Operators Kenny, K2KW, Russ, K6KLY and David, K8CC are QRV as C6ATA, C6ALY, and C6ACC, respectively, until June 16. Activity is on 6 meters, 2 meters, 70 cm and 23 cm, including possibly some HF activity. QSL to home calls.

SOUTH COOK ISLANDS, E5. Shirley, VK5YL will be QRV as E51XYL from Rarotonga Island, IOTA OC-013, from June 10 to 17. Activity will be on 20 meters using SSB. QSL to home call.

BOSNIA-HERZEGOVINA, E7. Members of the radio club from Zenica are QRV as E770BAB until the end of 2017 to its 70th anniversary. QSL via E71EZC.

FRENCH POLYNESIA, FO. Operators Didier, F6BCW, Dominique, F6DTZ, Serge, F6IPT, Pascal, F1MNQ and Pierre, F1TCV will be QRV as TX5EG from Atoll Ahe, King George Islands, IOTA OC-131, from June 11 to 19. Activity will be on 80 to 12 meters using CW and SSB. QSL via F6BCW.

REUNION ISLAND, FR. Thomas, F4HPX is QRV as FR/F4HPX from various locations on Reunion Island until June 16. Activity is on 40 to 15 meters using possibly CW, with SSB, RTTY, PSK31, JT65 and JT9. QSL to home call.

SCOTLAND, GM. Graham, MM0GDM is QRV as either MM0GDM/p or MM0GDM/m from Arran, IOTA EU-123, until June 17. Activity is holiday style on the HF bands. QSL to home call.

BELGIUM, ON. Special event station OS500RD is QRV until the end of June to celebrate the 500th anniversary of the birth of Flemish physician and botanist Rembert Dodoens. QSL via bureau.

FAROE ISLANDS, OY. Bill, K2HVN will be QRV as OY/K2HVN from June 13 to 26. Activity will be on 40 to 10 meters using CW and SSB. QSL to home call.

GREENLAND, OX. Bo, OZ1DJJ will be QRV as OX3LX from Tasiilaq Island, IOTA NA-151, grid square HP15eo from June 12 to 26. Activity will be in his spare time on 6 and 4 meters, and possibly HF as well during his morning and evening hours. QSL to home call.

ST. MAARTEN, PJ7. Operators K9UK, KK9N, W9AEB and W9KXQ will be QRV as PJ7/home calls from June 14 to 28. Activity will be on 80 to 10 meters using CW, SSB and RTTY with two stations active. Look for PJ7/W9DR to be QRV on 6 meters as well. QSL to home calls.

GREECE, SV. Oliver, DK7TX will be QRV as SV8/DK7TX from Ereikoussa Island, IOTA EU-052, on June 10 and 11. Activity will be on 40 to 6 meters. QSL to home call.

PALAU, T8. Ryosei, JH0IXE is QRV as T8CW from Koror Island, IOTA OC-009, until June 18. Activity is on 80 to 6 meters using CW, SSB, RTTY, PSK31 and JT65. QSL direct to home call.

COSTA RICA, TI. A group of operators are QRV as TE8DX from Chira Island, IOTA NA-116, until June 12. Activity is on 80 to 10 meters, including 6 meters. QSL via TI2CDA.

MALI, TZ. Fredo, TZ4PR is QRV until October. Activity is casual on the HF bands. QSL direct to F1UIJ.

UKRAINE, UR. Special event station EO25P is QRV until December 31 to celebrate the 25 years of the Volyn Amateur Radio League. QSL via operators' instructions.

THIS WEEKEND ON THE RADIO. The ARRL June VHF Contest, NCCC RTTY Sprint, NCCC CW Sprint, HA3NS Sprint Memorial CW Contest, DRCG World Wide RTTY Contest, VK Shires Contest, Asia-Pacific SSB Sprint, SKCC Weekend CW Sprintathon, Portugal Day Contest, GACW WWSA DX CW Contest, REF DDFM 6-Meter Contest and Cookie Crumble QRP Contest will certainly keep contesters busy this upcoming weekend.

The 4 States QRP Group Second Sunday Sprint is scheduled for June 12.

The RSGB 80-Meter Club CW Championship, Phone Fray, CWops Mini-CWT CW Test and NAQCC CW Sprint are scheduled for June 14.

Please see June QST, page 87, and the ARRL and WA7BNM contest web sites for details.
NNNN

CLASSIFIED**K8ABS ESTATE SALE**

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

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

Home Brew?? Collins Speaker Cabinet w/
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Above is Jim's operating station W/ Manu-
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Also have handhelds, will be procuring chargers
etc.

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



Space Available to push your stuff

LINKS AND STUFF

Under re-construction. Watch for the orange barrels

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

*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 —	100.0
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

Copper County ARES
146.88
Wednesday 6pm EST

Dickenson County ARES
146.85
Sunday 6pm CST

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

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

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

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

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

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

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

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

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

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

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

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

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Terry Moriarity: 715 251 1670

Activities:

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

Visitors and prospective members are always welcome!

Club Repeater:

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

The Repeater Specifications:

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

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

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

We're on the Web!

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

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

From Your Newsletter Editor

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

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

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

DX Code Of Conduct

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

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

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

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

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

I will always send my full call sign.

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

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

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

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

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

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

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

MEMBERSHIP

Call Sign	Last Name	First Name	City	Phone	Email
WB8EBS	ARMBRUST	BURT	QUINNESEC	906-774-8383	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	efry7849@gmail.com
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
KD9HQD	LaLIBERTE	BRUCE	NIAGRA, WI	?	liberte@borderlandnet.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	MORIRITY	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
K4FMX	SCHAFFER	GARY	NIAGRA, WI	?	GARYSCHAFFER@LARGERIVER.NET
KG9Y	THOMAS	DAVE	NIAGARA	715-251-1393	kg9y@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.