



MICH-A-CON

Iron Mountain,
Dickinson County, Mich

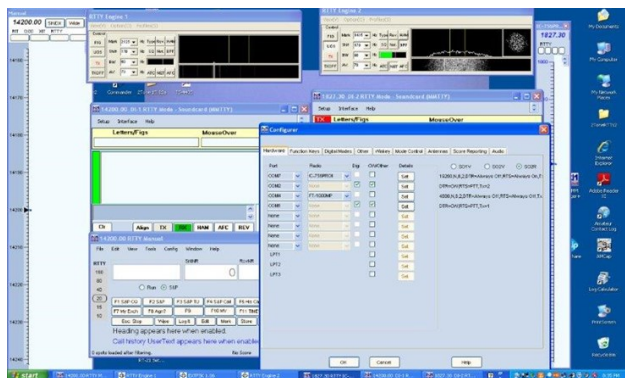
April 8, 2015

Meeting Reminder: Second Wednesday of the Month

Which is **April 8, 2015** at 07:00 PM at the Dickinson Library, Iron Mountain.

Please be there and support the cause of Amateur Radio.

From The President



Screen Shots

For those of you that have a lot of different settings for your ham radio programs written down on scraps of paper and the backs of envelopes, try using screen shots. I have probably 20 shots of various settings on a flash drive. They are in folders named for each program.

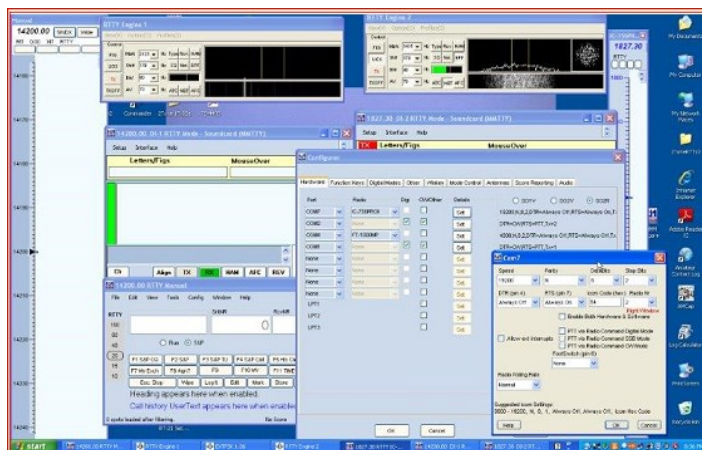
I use Gadwin PrintScreen on my computers. It's free. We all like free stuff, right?

Below is their site.

[Gadwin PrintScreen - Gadwin Systems](http://www.gadwin.com/printscreens)

www.gadwin.com/printscreens

See You Wednesday
73,



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MICH-A-CON AMATEUR RADIO CLUB MINUTES OF MARCH 11, 2015

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

Secretary Report

Minutes of the February 11th meeting were read and approved.

Treasurer Report

Balances as of March 11, 2015

Checking- \$2.57

Regular Savings- \$2707.33 of which \$1599.43 is in the trailer fund.

Repeater Savings- \$804.56

Cash- \$17.00

Repeater Report

The new repeater is in but has not been tested. The current repeater has received mixed reviews, lately. The noise problem is back and a pager has recently come through on it. WE Energies hasn't done anything to alleviate the noise, yet, but are expected to act soon. For now, we are using the old antenna as the new one picks up more noise.

Old Business

Attendees were reminded that the club social gathering, at Bartoletti's (in Aurora) will be held on March 14th.

Tom Heyboer received congratulations for another excellent newsletter. It was noted that several hams from outside the area have also made positive comments about it.

Skip Caswell plans to pick up the hazer donated by Don and Kathy Falls.

The club CW practice net that has been meeting on 10 meters (28.310 MHz), following the Mich-A-Con Social Net and the ARES Net. Tom Martin distributed a handout that included text that will be sent in CW. Concepts relating to DXing and contesting with CW were also discussed.

New Business

Tom Martin reported that he has been in touch with Mike Bray, who has been our club webmaster and the trustee of the club callsign. Mike would like to step down from both responsibilities. Tom Heyboer consented to become the new webmaster. Tom Martin will take on the trusteeship of the club call.

President Tom informed the group that he will not be in attendance for two upcoming meetings. Vice President Scott Jarmusch will chair both the April and June meetings. The June meeting is especially important as it is right before ARRL Field Day. In that regard, we already have the site reserved. The fee will be paid in May. Terry Moriarity and Sam Holmes are being asked to coordinate operators during Field Day.

**Adjournment**

The meeting was adjourned at 7:30 pm.

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
Joe Ferris, KC9TQR
Gary Schafer, K4FMX
David Thomas, KG9Y
Skip Caswell, KE9L

Tim Miller, N8TUM
Terry Moriarity, K9TRY
Tom Heyboer, KC8TH
Joe Kombleicz, KB8ETK
Dana Bey, KD8POR
Scott Baker, KB9AUX
Beth Baker, KC9KVP

ARRL DX NEWS

From ARRL Headquarters
Newington CT April 2, 2015
To all radio amateurs

SB DX ARL ARLD013
ARLD013 DX news

This week's bulletin was made possible with information provided by

K7LA, 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.

MONACO, 3A. Gil, F4FET and Diego, F4HAU are QRV as 3A/home calls until April 5. Activity is mainly on 12 and 10 meters using RTTY

and SSB, respectively. QSL to home calls. In addition, special event station 3A90IARU is QRV until June 30 to celebrate the 90th

anniversary of the IARU. QSL via 3A2ARM.

FIJI, 3D2. Wes, ZL3TE will be QRV as 3D2SE from Viti Levu, IOTA

OC-016, from April 10 to 13. This includes being an entry in the

upcoming Japan International DX CW contest. Activity will be on the

HF bands using mainly CW and some digital modes. QSL direct to home

call.

MALDIVES, 8Q. Andy, LZ2HM is QRV as 8Q7SA from North Male Atoll until April 12. Activity is holiday style on 60 to 6 meters. QSL via LZ2SM. **KUWAIT, 9K.** Members of the Kuwait Amateur Radio Society are QRV using special event call sign 9K90IARU during the month of April to celebrate the 90th anniversary of the IARU. QSL via operator's

instructions.

CANARY ISLANDS, EA8. Special event station AM890CNR is QRV from Santa Maria de Guia, IOTA AF-004, during April to celebrate the 90th anniversary of the IARU.

QSL via operators' instructions.

MARTINIQUE, FM. Special event station TO90IARU will be QRV from April 4 to 8 to celebrate the 90th anniversary of the IARU. QSL via

bureau.

REPUBLIC OF KOREA, HL. Members of the Korean

Amateur Radio League are QRV as HL60HQ until July 31 to celebrate the organization's 60th anniversary. QSL via HL0HQ.

THAILAND, HS. Champ, E212EIC is QRV as E21EIC/8 from Southern Thailand until April 7. QSL to home call.

CURACAO, PJ2. Anja, DH2AK and Torsten, DL1THM are QRV as PJ2/home calls until April 23 while on holiday.

Activity is holiday style on

the HF bands using mostly SSB and RTTY. QSL to home calls.

TRINDADE AND MARTIN VAZ ISLANDS, PY0T. A group of operators are QRV as PQ0T from Trindade Island, IOTA SA-010, until April 4. Activity is on 160 to 6 meters with two stations active. QSL via PP5BZ.

KAZAKHSTAN, UN. Special event station UPI20R is QRV to commemorate the 120th anniversary of radio. QSL via operators' instructions.

SOUTH GEORGIA ISLAND, VP8. Denis, VP8DOZ is generally QRV on 18160 kHz around 2100z. QSL via ZL4PW.

CHAGOS ISLAND, VQ9. Bob, DU7ET is QRV as VQ9ET from Diego Garcia,

IOTA AF-006, until June. Activity is on the HF bands. QSL direct

to home call.

INDIA, VU. Special event station AT150ITU is QRV through December 2015 to commemorate 150 years of the International

Telecommunications Union. Activity is on all HF bands using various

modes. QSL via operators' instructions.

INDONESIA, YB. Special event station YB200T will be QRV from April 5 to 11 to commemorate the volcanic eruption of Mount Tambora 200 years ago. QSL via W2FB.

SERBIA, YT. Special event station YU178SB is QRV until July 31 to

celebrate the 178th anniversary of Sokobanja. QSL via YU1KN.

CHATHAM ISLAND, ZL7. John, ZLIBYZ, David, ZLIDK and John, ZLIALZ are QRV as ZL7E from Kaingaroa, IOTA OC-038, until April 15.

Activity is on 40 to 10 meters using CW, SSB and RTTY with two

stations active. QSL via ZLIALZ.

OPERATION APPROVED FOR DXCC CREDIT. The following operation is approved for DXCC credit: Cocos Island,

T19/3Z9DX, 2015 operation.

THIS WEEKEND ON THE RADIO. The 15-Meter SSTV Dash Contest, LZ Open 40-Meter CW Sprint Contest, QRP CW Fox Hunt, NCCC RTTY Sprint, NCCC Sprint, PODXS 070 Club PSK 3I Flavors Contest, QRP ARCI Spring CW QSO Party, Mississippi QSO Party, Missouri QSO Party, SP DX Contest, EA RTTY Contest, Texas State Parks on the Air, Montana QSO Party, UBA Spring 6-Meter Contest and the RSGB RoPoCo SSB are all on tap for this upcoming weekend. The Low Power Spring CW Sprint and RSGB 80-Meter Club CW Championship are scheduled for April 6. The ARS Spartan CW Sprint

is scheduled for April 7. The QRP CW Fox Hunt and CWops Mini-CWT CW Test are scheduled for April 8. Please see April QST, page 83, and the ARRL and WA7BNM contest websites for details.

ARRL PROPAGATION BULLETIN

Propagation Forecast Bulletin 14 ARLP014

>From Tad Cook, K7RA
Seattle, WA April 2, 2015
To all radio amateurs

This bulletin is being posted a day early because ARRL headquarters is closed tomorrow April 3 for Good Friday.

This week's numbers have average daily solar flux and sunspot numbers headed in opposite directions.

For the March 26 through April 1 period, average daily sunspot numbers fell 6 points to 77.9, and average daily solar flux increased 13.3 points to 135.7, compared to the previous seven days.

Geomagnetic indices were quieter, with average daily planetary A index declining 10.7 points to 8.7, and average daily mid-latitude A index dropping 6.6 points to 7.7.

We saw four new sunspot regions over the past week, one each on March 26, 28, 29 and April 1.

The latest short term prediction for solar flux has 130 and 135 for April 2 and 3, 125 on April 4 to 6, 130 on April 7 and 8, 140 on April 9, 145 on April 10 to 13, 140 on April 14, 135

on April 15 to 18, 130 on April 19, and 125 on April 20 to 22. Then solar flux sinks to a low of 120 on April 23 to 25 and hits a high of 150 on April 28 before declining again.

Predicted planetary A index is 12, 20 and 15 on April 2 to 4, 8 on April 5 to 8, 5 on April 9 to 11, then 15 and 30 on April 12 and 13, 20 on April 14 to 16, 15 on April 17, 20 on April 18 and 19, 12 on April 20, 5 on April 21 and 22, 8 on April 23 and 24, 25 on April 25 and 29 on April 26 and 27.

At 2328 UTC on March 31 the Australian Space Forecast Centre issued a geomagnetic disturbance warning. Increased geomagnetic activity is expected due to a high speed solar wind from a coronal hole. The geomagnetic activity forecast is for active conditions on April 2 and unsettled conditions April 3.

At the beginning of April we can look back at various averages of daily sunspot numbers ending on March 31.

For monthly averages, the period since December 2014 shows a steady decline. The monthly averages for daily sunspot numbers in the past four months were 120, 101.3, 70.7 and 61.7. Our three month moving averages of daily sunspot numbers centered on February 2014

(averaging for the period January 1 through March 31) through

February 2015 were 146.4, 148.4, 129.6, 118.4, 112.8, 109.2, 115.6, 108.4, 107, 104.7, 107.8, 98.2 and 78.1.

What does this lower activity mean in practical terms for HF? It means that on average, the HF bands, particularly at the higher end (20 to 30 MHz) will be open less often and less reliably. Of course we can see big differences from day to day.

Using W6ELprop to get a general picture, on today's date last year we would see a path from Atlanta to Germany on 15 meters with an A rating (75 percent or better chance of communication) from 1230 UTC to 2330 UTC with signals at 29 db above a half microvolt at 1230 to 1800 UTC, then increasing to 33 db at 2030 to 2100 UTC and 38 db at 0030 UTC.

For today, although there is a small possibility of an opening after 1200 UTC, (especially at 1330 UTC) the opening begins with a 50 percent chance of reliable communication at 1500 UTC with signals at just 16 db and gradually increasing to 20 db at 2000 UTC.

This propagation model has a funny anomaly though, with possibly stronger signals on 20 and 17 meters than last year during early morning hours on the Atlanta end. I don't know why this is.

For instance, last year at this time on 20 meters at 1130 UTC (around sunrise) we see signals at 12 db with an A rating, declining to 7 db at 1330 UTC and 6 db from 1400 to 1530 UTC. But for today we see 20 meter signals at 1130 UTC with an A rating at 15 db, declining to 10 db at 1430 to 1530 UTC. But signals really pick up at 2230 UTC (around sunset in Atlanta) with signals at 37 db last year and 25 db this year.

For a graphic comparison of the latest four solar cycles, check http://www.solen.info/solar/images/comparison_recent_cycles.png.

At <http://www.solen.info/solar/> are many other comparisons.

For more information concerning radio propagation, see the ARRL Technical Information Service 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/wlaw-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 March 26 through April 1 were 103, 109, 82, 73, 56, 53, and 69, with a mean of 77.9. 10.7 cm flux was 136.1, 137.8, 145.6, 144.5, 133.6, 128.1, and 124.1, with a mean of 135.7.

Estimated planetary A indices were 8, 9, 9, 14, 5, 9, and 7, with a mean of 8.7. Estimated mid-latitude A indices were 7, 7, 9, 11, 5, 7, and 8, with a mean of 7.7.



CW Macros for Working DX

DX on 21032 sends: *E3OFB UP*

You send your call *W8JWN* from 21034-21040. Try to find the station he works and then move up a bit from him. Rarely can you get the DX on the last freq he worked. The pileup will be there. Last night the E30 had a pattern. He would listen 2-4 up and work a few and then listen up 30. He didn't send up 30 but I heard him work stations on 21064. Also, check the cluster for frequencies. I worked him on 21062.

DX comes back to your call: *W8JWN 5NN This means 599. Faster than 5 and #99*

You reply: *5NN TU*

DX: *TU* If you don't hear *TU*, he might have missed your report. Also, don't give him a report unless he has your call correct. Just keep sending your call until he gets it.

Working DX on SSB uses the same principles. He says, *UP 5-10* You transmit in that spread.

The same macros can be used on RTTY

NEVER EVER TRANSMIT ON HIS FREQUENCY. If you do, get ready to hear a lot of abuse! Check your VFO.

10 METER NET PRACTICE at 28.310 Thursday after the ARES Net

QRL This means Is this "Frequency in Use"

W8JWN

599 TU

73 ES GL TU This means, "Best Regards and good luck thank you". Never say, "73s".

CQ DX CQ DX de W8JWN W8JWN CQ DX If you call *CQ DX*, don't send faster than you can receive.

E3OFB de W8JWN TNX fer call UR 599 in MI BK BK is back to you, or break.

ARRL MICHIGAN SECTION NEWS

Greetings to the Hams of Michigan:

News From Around the Section

Hamfest Reminder

Here is a reminder to clubs that are planning hamfests in 2015: It is never too early to register your swap on the ARRL website. Many hams are planning summer vacations and other travel around the state and their plans may well include a stop at your swap. In order to plan to attend, they need to know when your event is scheduled.

MI Digital Presentation Team

The Michigan Digital Presentation Team, which consists of 5 hams from Western, Central, Eastern and Northern Michigan is open for business during the more temperate times of the year. Depending on schedules, they are available to present a very interesting and instructional program on HF digital sound card modes for your club or hamfest forum.

Members from our team will be presenting a forum at the Great Lakes Division Convention in Columbus, OH on August 1.

If you are interested in having them visit your club meeting or present a program at your hamfest, you can contact them by email at the following addresses:

Northern Michigan: John Clements, KC9ON, Gaylord, MI kc9on@arrl.net

Western Michigan: John Mathieson, AC8JW, Portage, MI ac8jw@arrl.net

Central Michigan: Stephen Smith, WA8LMF, Haslett, MI wa8lmf@arrl.net

Eastern Michigan: Joe Miller, KJ8O, Troy, MI kj8o@arrl.net

Eastern Michigan: Brian Johnston, W8TFI, Warren, MI w8tfi@arrl.net

Please keep in mind that these individuals are volunteers and they travel on their own time and funds. It may not be practical for them to travel great distances.

PRB-1 Signing Ceremony

MI ARRL PRB-1 Team Attends Ceremonial Signing of PA 556 (PRB-1).

On Tuesday, March 10, the Michigan PRB-1 team attended a ceremonial signing of SB 493 into law by Michigan

Governor Rick Snyder. Attending the ceremony was Dale Williams, WA8EFK, ARRL Great Lakes Division Director, Larry Camp, WB8R, MI Section Manager, Ed Hude, WA8QJE, MI ARRL State Government Liaison, and Butch Hedges, KD8NKJ, MI ARRL Local Government Liaison.

MI ARRL Legislative Leadership Award

Also on Tuesday March 10, the inaugural Michigan ARRL Legislative Leadership Award was presented to Michigan Senator Rick Jones from the 24th District. Senator Jones' press release can be found here:

<http://www.senatorrickjones.com/sen-jones-honored-by-american-radio-relay-league/>

Senator Jones was the primary sponsor of SB 493 which codifies PRB-1 into Michigan law.

Michigan QSO Party

Now is the time to be making your plans to participate in the 2015 version of the Michigan QSO Party which is scheduled for Saturday, April 18, 2015 from noon to midnight local time on 80 through 10 Meters (no WARC Bands) SSB and CW.

This is a great, reasonably short competition that is ideal for clubs and individuals alike. Set aside time to participate in this great event and be sure to take the information to your club meetings to encourage participation.

Full information is available online at:

<http://www.miqp.org/>.

Michigan Section Website Update

Last month I made a plea for some help to develop a Michigan ARRL Section Website. I am pleased to report that I have 4 excellent, very experienced individuals who have volunteered their services to create a website for us. I am hoping to have something to look at in the next few weeks. I would like to roll it out to the hams of Michigan in June.

HR 1301 Introduced in House of Representatives



The Amateur Radio Parity Act of 2015 -- H.R.1301 -- has been introduced in the US House of Representatives. The measure would direct the FCC to extend its rules relating to reasonable accommodation of Amateur Service communications to private land use restrictions. US Rep Adam Kinzinger (R-IL) introduced the bill on March 4 with 12 original co-sponsors from both sides of the aisle -- seven Republicans and five Democrats.

HR 1301 would require the FCC to amend its Part 97 Amateur Service rules to apply the three-part test of the PRB-1 federal pre-emption policy to include homeowners' association regulations and deed restrictions, often referred to as "covenants, conditions, and restrictions" (CC&Rs). At present, PRB-1 only applies to state and local zoning laws and ordinances. The FCC has been reluctant to extend the same legal protections to include such private land-use agreements without direction from Congress.

H.R. 1301 has been referred to the House Energy and Commerce Committee. Rep Greg Walden, W7EQI (R-OR), chairs that panel's Communications and Technology Subcommittee, which will consider the measure.

Please visit the ARRL website for additional details concerning contact with your representative. When writing to your representative, please follow the instructions to send your letter to the ARRL, who will hand deliver letters to members of the House.

For those of us in Michigan who are fortunate to have Congressman Walberg as our representative, he is already signed on as one of the original 12 co-sponsors, so there is no need to ask him to co-sponsor, however there is a need to send him an email thanking him for his efforts on our behalf.

For those hams that live in the 1st Congressional District and are represented by Rep. Dan Benishek, please write him and ask that he once again sign on as a co-sponsor for this bill. He previously was a co-sponsor on HR 4969 (same bill from 2014 that died at the end of the legislative term) and we certainly would like to have him join the fight on HR 1301.

Please understand that our efforts right now are focused on the members of the House of Representatives, not on our Senators. Eventually, the focus will change, but for now your letters need to go to your representative.

Please copy me on your correspondence (wb8r@arrl.org). More information will be forthcoming as the ball gets rolling in our efforts to get this important legislation passed into law.

2015 Club Election Results

Central Michigan ARC Board of Directors for the year 2015 are as follows:

President: Julie McLain/KB8ZXR
 VP: Tom Rocheleau/WA8WPI
 Secretary: Jane Hosford/KC8FSK
 Treasurer: Jerry Waite/KD8GLN
 Director: Don McLain/KB8RAD
 Director: Chris Ranes/NS8Q
 Under 22 Director: Sam Fitzgerald/N8FPR

Thank you for accepting the call to serve. Amateur radio clubs are truly the lifeblood of amateur radio.

Michigan Section Family Outing Planning Begins

The very popular Michigan ARRL Section Family Outing for 2015 has been scheduled for July 9-12 at the Woodlands Conference Center and Campground in Hale, MI, near West Branch in the northeast Lower Peninsula. There are opportunities for tent camping or RV camping along with beds in the bunkhouse available. If you prefer to not rough it, there are hotels available in West Branch.

Once again this year, the annual ARES/RACES Emergency Coordinator's meeting will be held on the Saturday of the outing.

Our Section Outing web site is being updated as this is being written and should be ready in time for the April version of the Section News.

Be sure to mark your calendars now so you will be able to join us for a fun and informative long getaway ham radio weekend.

2015 Great Lakes Division Convention in Planning Stages

Planning has begun for the 2015 Great Lakes Division Convention in Columbus, OH on August 1, 2015.

Hospitality Acknowledgements

Feb 14 Crossroads Hamfest, Kalamazoo, MI

It was a pleasure to attend your event and I thank you for the hospitality you have shown me.

Section Staff Travel Plans

| | |
|--------------------|---|
| May 2, 2015 | Cadillac Swap, Cadillac, MI – WB8R |
| May 9, 2015 | Chassell Hamfest, Chassell, MI |
| May 15-17, 2015 | Dayton Hamvention, Dayton, OH – WB8R |
| Jun 6, 2015 | IRA Swap, Hudsonville, MI – WB8R |
| Jun 7, 2015 | Chelsea Swap and Shop, Chelsea, MI - WB8R |
| Jun 21, 2015 | Monroe Hamfest, Monroe, MI - WB8R |
| July 9-12, 2015 | MI Sec. Family Outing, Hale, MI - WB8R, Section Staff |
| Aug 1, 2015 | Great Lakes Div Convention, Columbus, OH – WB8R |
| Aug 1, 2015 | UP Hamfest, Escanaba, MI |

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.

Amateur Radio Public Service Corps (ARPSC) Activities

Station Activity Reports (SAR) for February, 2015:
 WB9JSR 976, WB8WKQ 473, KB8RCR 349, K8ED 342, WB8TQZ 206, K8RDN 154, N8FVM 130, KC8BW 90, WD8MWD 40, W8MSK 33, WN8QGV 32, WD8USA 21, N8UN 18, WB8RCR 16, N8OSL 13, WB8H 10, WB8R 5, KD8LSM 1.

Total SAR reported: 2909

Brass Pounder's League (BPL) for February, 2015:
 WB9JSR 976.

Public Service Honor Roll (PSHR) February, 2015: N8OSL 317, WB8RCR 296, N8FVM 165, WB8R 163, WD8MWD 140, WD8USA 136, WB9JSR 130, WB8TQZ 110, KC8YVF 109, K8RDN 101, KB8RCR 100, WB8WKQ 100, KC8BW 90, K8ED 90, WN8QGV 43, WB8H 33, KD8LSM 26.

Net traffic for February, 2015: Michigan Amateur Communications System 288, Michigan Traffic Net 212, The Michigan Net 210, Michigan VHF Traffic Net 73, Michigan Digital Traffic Net 45, Upper Peninsula Net 43, Great Lakes Emergency and Traffic Net 29, Motor City Radio Club 2 Meter Net 14, District 3 ARPSC Net 6, Saginaw County ARES Net 3, Michigan Amateur Radio Public Service Corps 1, Genesee County Radio Club 1, Genesee County ARPSC Traffic and Training Net 0, District 5 Hospital Net 0, Bay Area Regional Traffic System, Chelsea ARC Net, District 8 Emergency Net, Branch County Emergency Net, Michigan ARES D-Star net, Red Cross Net of Greater Grand Rapids.

Total net traffic reported: 925

Dollar value of NTS person-hour contribution: \$52,912.

Dollar value of ARES person-hour contributions:

\$174,128.



Total dollar value of volunteer contributions in February: \$227,040.

If you are reporting monthly, you can see your PSHR eligibility status at <http://www.nts-mi.org/>. The full details are at:

<http://www.arrl.org/public-service-honor-roll>. This award recognizes the efforts of hams that are active in public service. Those reporting accumulate points for checking into nets, volunteering, holding Section appointment(s) and handling message traffic.

EC's can see their reports of Form FSD-212 here: http://ares-mi.org/ec_his.php If you send your report to WB8RCR and don't see it noted there, send a note to John to tell him your report has gone missing. EC's: Be sure to share your FSD 212 with your District EC, your

ARES/RACES members and with your county's Emergency Manager and others in your jurisdiction who need to know what you and your ARES/RACES group are contributing to your community each month.

If you have difficulty with reporting and how to complete the FSD 212 form, assistance is as close as your District EC or your Section EC. If you don't know who these folks are, you can locate them here:

<http://ares-mi.org/ECcontact.php>. They stand ready to help you.

Until next time,

73,

Larry, WB8R

Dales Tales

Greetings everyone, welcome to "Dale's Tales" for April 2015.

The Michigan QSO Party arrives at 1600Z on April 18. It runs until 0400Z on April 19. Sponsored by the Mad River Radio Club, the MiQSO party is an annual event that offers Single op, Multi op, Mobile and Portable operators a chance to compete for the honors. This year introduces a special award for working the "Michigan Cabinet Counties".

Full details are on the MiQP web page at <http://www.miqp.org/index.html>.

The Parma Radio Club will celebrate its 3rd annual Earth Day this April 25th with a special event station. W8PRC, will be on SSB within 20 kHz of 7.195 and 14.245 kHz from historic Stearns Farm in the heart of the city. Our operation will be entirely on solar power in recognition of Earth Day. A beautiful QSL card will be available. For more information, see www.parmaradioclub.webs.com.

The Southeastern VHF Society is proud to announce the upcoming 2015 Spring Technical Conference will be held at the Space Science Center of Morehead State University in Morehead, Kentucky on April 24th and 25th.

In addition, this conference has just been upgraded to an Operating Specialty Convention by the ARRL. Two days of various VHF-UHF-Microwave technical presentations covering weak signal work, VHF-UHF-Micro contesting, construction technique, demos, antenna testing, preamp testing, vendor displays, flea market, and a Saturday evening banquet with its history of valuable door prizes. The SVHFS website and links to the conference registration, program, and hotel info are at <http://svhfs.org/wp/>.

As you are aware, HB 1301 has been introduced in the House of Representatives. This bill is to allow ham radio operators living in areas controlled by homeowners associations and on deed-restricted properties, to reasonably install antennas; not unlike the FCC ruling that today allows those very same people living in such areas to

install outdoor broadcast TV receive antennas. Hence the name "Amateur Radio Parity Act". This just calls for fairness. While a person living in a deed-restricted area today can legally install a 2 foot diameter TV receive-only dish on his roof, he cannot install a 4 inch UHF ¼ wave ham radio antenna on his rain gutter. Our bill asks that, just like the case of PRB-1, ham antennas should be reasonably accommodated.

So today, I ask you: "Has your Congressman signed up to support HB 1301?" Have you contacted him/her to gain support? Please examine the ARRL Web Page <http://www.arrl.org/hr-1301> for contact information and the complete text of the bill. There you will find some excellent suggestions for formatting your letter to your congressperson, along with supporting documentation and a listing of Congressmen. We currently have support from the following in our Division: Dan Benishek MI-01, David Joyce OH-14, and Tim Walberg MI-07. Please take some time to thank them and be sure to implore your Congressperson to support HB 1301.

As a further opportunity to assist you, we will have a booth in the ARRL EXPO at the Dayton Hamvention to allow you to send an appropriate letter to your congressman in support of HB 1301.

Here are the monthly comments from our Great Lakes Div. Vice Director, Tom W8WTD:

One of my goals as Vice Director is to keep in touch with what's going on throughout the Division, so I can help our Director, Dale, know what people are thinking, and look at trends, whether they relate to on-going policy decisions for the League, or are just good radio activities in general.

At the beginning of March, I traveled down to Cave City, KY, for their hamfest. I was fortunate to talk to a number of hams around Elizabethtown who had just been through an emergency response a few days before. All those people stranded in the snowstorm on I-65 needed help, and the hams were there to assist local responders. Well done, everyone!

You know, we prepare and plan, and time goes on and we think all is fine. Then, in a matter of hours, we're in the thick of things. We can't tell the situation to hold off

while we get ready. It's just a matter of grabbing the radios and other stuff, and responding. If we prepared well, it shows. Even if we haven't, we can do a good job, but it could always be better with more prep. You never know when the next disaster will happen. Spring is almost here, and the storms will be following. Are your batteries charged?

When we think of trends, it's usually about what a lot of individuals are doing or have discovered. Trends or patterns with clubs are usually harder to spot. But right now I sense that there is a trend going on with a number of clubs, and it is that they are acquiring new digital voice repeaters. The discount offered by one manufacturer (ending this month) has attracted many clubs, and soon we'll have a lot of these repeaters on the air across the Great Lakes Division.

I look forward to hearing how things go. It's one more step in the on-going advancement of amateur radio. Some people don't like the trend towards digital. Others have embraced it in its various competing forms. Some are waiting on the sidelines for the formats to settle out. What will happen? How will a repeater built to handle either digital or analog input perform for its users? Will a lot of people invest in the new digital format? Will a particular repeater stay mostly analog, even if it's capable of digital? Will one type prevail?

On the larger subject of digital voice modes, we hope to have a forum on that subject at our Division Convention in August. If you've never heard of P25, DMR, D-Star, or C4FM, you can find out more from those who use those modes. If you're really involved in any of those modes, you can meet other folks who are as well, and share knowledge. Either way, we hope it will be a topic of much interest.

See you at Dayton! 73,
Tom W8WTD
Vice Director
Great Lakes Division

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



April 4 - Lincoln Trail, Elizabethtown, KY - KY10
April 4 - Portsmouth, Portsmouth, OH - N8SY
April 11 - Letcher County, Whitesburg - KY - KY10
April 25 - Jackson County, Jackson, OH - N8SY
April 26 - Athens, Athens, OH - N8SY
May 2 - Cadillac, Cadillac, MI - WB8R
May 9 - Big Sandy, Louisa, KY - KY10
May 9 - CCRA-KCRA - Chassell, MI - WB8R
May 15, 16, 17 - Hamvention® - Dayton, OH - Everyone!!
May 30 - Ashland - Ashland, KY - KY10

Hamfest officials: When you receive your "Hamfest Package" from ARRL, open it immediately. Read it over and look at all of the material you received. There is a form included to order additional if you deem it appropriate.

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

The ARRL Director, Vice Director and Section Managers are available to visit local radio clubs and give presentations about ARRL and what is happening in the Section or Division. Please feel free to invite any of us for an "ARRL Night" at your club. Most of the talks are prepared in a video presentation format and can include a Q&A session as well.

Advance scheduling really helps and gives you an opportunity to publicize the event. See pages 15 & 16 of a recent QST for contact information.

73, see you on the bands.

Dale Williams WA8EFK
Director
Great Lakes Division

News

For Your Information

ARES Visitation

Subject:ARES**Date:**Sun, 22 Mar 2015 20:03:32 -0500**From:**Jim R <jimrye@up.net>**To:**Tom Martin <tmartin@chartermi.net>

Tom.....

It has been suggested that the ARES team of Iron County relate an invitation to the Iron Mountain ham club ARES members.

They are welcome to visit our command post in the Iron County and if they wish contact me at jimrye@up.net or by phone 875-3582 to arrange a time so I will be there. Courthouse hours are 9 to 4. We have been welcomed to participate in Dickenson ARES activities and feel this should be a two way street.

I would appreciate your relaying this to all club members.

Jim Rye

W8IFI



HR 1301 News Update

To all ARRL Members of Michigan's 1st Congressional District:

I just received a communication from our ARRL President, Kay Craigie, N3KN.

This is in regards to HR-1301, The Amateur Radio Parity Act of 2015.

If enacted, this bill would direct the FCC to extend reasonable accommodation for Amateur Radio antenna systems as ordered in PRB-1 to those amateur radio operators encumbered by private land use restrictions.

Last week, Kay visited the Washington, DC, office of Congressman Dan Benishek MI-01 to encourage co-sponsorship of H.R. 1301, The Amateur Radio Parity Act of 2015. She met with the Congressman himself. The meeting was very cordial. As you may be aware, Cong. Benishek is also a ham KB8TOW.

We were advised this morning that Cong. Benishek has added his name to the list of co-signers.

ARRL is asking that everyone receiving this communication in MI-01 to reach out to Congressman Benishek, and thank him for supporting this legislation.

This can be done in several ways. One is to telephone a local office and simply thank the Congressman for co-sponsoring H.R. 1301.

Mentioning the bill number is essential. His local office numbers are posted on the Congressman's web page at: <https://benishek.house.gov/contact-me>.

Also on that web page is a direct way to e-mail the Congressman. This is a great resource, and takes minutes to do. You do not need to write a long message. Just say something like "Thank you for co-sponsoring H.R. 1301, the Amateur Radio Parity Act of 2015. As your constitu-

ent and an Amateur Radio operator, I know how our service in providing emergency communications during the times of disaster can serve the public. Our ability to do so would be strengthened by the passage of this bill." You certainly can put this in your own words -- in fact it's a good idea to do that -- as long as you mention the bill number (HR-1301) correctly.

Information about the bill is on the ARRL web site at <http://www.arrl.org/hr-1301>. Also posted there is information about how to send postal mail to Congressmen most efficiently.

I know there has been much discussion about last year's bill, which has now been reborn as this year's HR-1301. This is important stuff.

Last session we had two Michigan Congressman co-sponsor our previous bill on the same subject. I strongly suspect we can do better.

As your ARRL Director, along with Tom Delaney, your Vice Director, and Larry Camp WB8R your Section Manager, we ask that you take a few minutes and contact Bob Benishek's office, and thank him for his co-sponsorship of this bill. If you are not currently affected by private land use regulation, please do so for other hams that are. Our success around the Great Lakes Division, as well as around the country, will rest on the number of individuals taking a few minutes to contact their US Representative's office!

Thank you! And 73,

Dale WA8EFK
ARRL Director
Great Lakes Division

2015 Michigan QSO Party



What? Michigan QSO Party

When? April 18th, 2015
16:00z (18th) to 04:00z (19th)

Where? 10 thru 80 Meters (CW & SSB)

Why? Just Have Some Fun!!!!

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

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

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

Sponsored By: The Mad River Radio Club

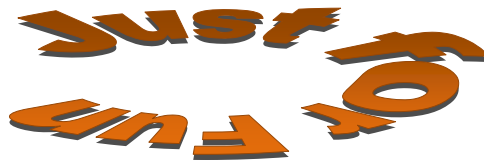
From: Mike, N8MR, 2015 MiQP Publicity (as relayed from Bob Meyers)

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

The 2015 Michigan QSO Party, sponsored by the Mad River Radio Club, is from 1600Z April 18 until 0400Z April 19.

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

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



This is a Repeat
On Antenna's:

Find the word horizontally, vertically, diagonally (forward or backward)

Have Fun

| | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
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| | B | W | 9 | V | R | G | H | G | 8 | D | K | 5 | W | 4 | B | |
| | W | F | V | P | Q | Q | L | W | R | 4 | E | W | N | H | 4 | |
| | P | O | O | L | 3 | A | E | Z | K | E | 9 | 7 | V | G | J | |
| | V | R | 8 | M | A | E | B | R | 6 | 3 | L | R | M | I | L | |
| | Q | C | U | S | H | C | R | A | F | T | T | O | M | 3 | A | |
| | B | E | 3 | T | M | O | O | N | 6 | 3 | X | P | P | D | L | |
| | W | 1 | Q | T | T | U | M | W | D | O | M | 8 | 4 | I | T | |
| | H | 2 | 3 | A | N | N | E | T | N | A | L | D | E | P | D | |
| | W | V | W | W | 4 | T | W | 7 | U | 3 | U | K | G | N | 6 | |
| | M | J | 5 | 8 | I | E | E | G | O | N | G | Q | A | F | M | |
| | X | I | V | J | G | R | 4 | Y | R | W | E | B | D | H | J | |
| | O | 3 | T | W | A | N | E | R | G | 9 | V | R | J | T | 6 | |
| | O | M | 3 | N | Y | R | O | T | A | N | O | S | E | R | E | |
| | P | N | M | G | K | 3 | V | 9 | E | O | 4 | 3 | T | R | M | |
| | Q | 4 | Z | P | 2 | S | P | K | D | M | U | T | 8 | N | J | |
| | | | | | | | | | | | | | | | | |

Words to Locate:

Antenna Band Beam Counter Cushcraft Dipole Force12 Freq (Frequency abbreviated)
Ground Loop Meter Moxon Ohm Quad Resonator Tuner Watt Wire Yagi

Extra Credit: A few local Call Signs
KE9L K9TRY N8TUM W8JWN KD8POR LD8GHG

CLASSIFIED

K8DDB

Items For Sale

Prices as of March 3, 2015

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

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

Radio Gear:

Elecraft K3 Transceiver (serial # 5093 purchased 1/11/2011) – 100 watts, w/ATU, general coverage Rx module, filters for - 6 khz, 400 hz, 250 hz -includes manuals,

Heil Proset-K2 boom headset for the K3/K2 (Heil iC element) and book "The Elecraft K3" by Fred Cady.

Asking \$1,999

Ten- Tec Centurion Model 422 Linear Amp – Two 3-500Z tubes – 1300 watts SSB, 1000 watts CW, 50% duty cycle. Tubes have very few hours on them as I operate primarily QRP - (includes manual)

Asking \$850

Viking 6n2 Transmitter

Asking \$19

Regulated CB Power Supply

Asking \$5

Test Equipment:

RCA Type WO-33A Oscilloscope

WG-349A Direct/Low Capacitance Probe

Instruction manual

Asking \$9

B&K Model 162 Transistor/F.E.T. Tester

With probe and manual

Asking \$39

Miscellaneous:

Scanner - Uniden Bearcat BC-210XL 18 channel scanning radio w/owner's manual and 1996 Radio Shack Police Call Plus Frequency Guide for Michigan and Ohio - Asking \$25

- CB Radio - Old 1970s Radio Shack Realistic TRC-55 console CB (23 channel AM) with digital clock (which no longer works) but its set at the perfect time for CB, 10:04 good buddy! Comes with hand mic and nostalgia of "Smokey and the Bandit" days - Asking \$25

UP AREA HAM FEST INFORMATION

Amateur Radio Swap

Sponsor: CCRAA & KCRA

Date: May 9th, 2015

Time: 0900 – 1500hrs

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

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

Admission: \$3 and 12 and under "Free"

Door Prizes & Raffle
Tables(8 foot): \$10 each
Refreshments & Food Available

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

POC: Howard Klann(KD8ABP)
906-337-0234
ccraaclub@gmail.com

Thunder Bay
Amateur Radio
Club

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



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

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

Make a Fall trip to Alpena, Michigan. Take in a great Swap and see some of the other sites and events in the Alpena area on that weekend.

<http://lighthousefestival.org/> <http://www.alpenashipwrecktours.com/> <http://thunderbay.noaa.gov/>

U.P. Hamfest 2015

Quick Reference Guide

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

THIS
Space
Reserved
For
You



Events

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



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*

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

Area Repeaters

| | |
|-----------------------|------------------|
| Escanaba 147.15+ | 100.0 |
| | 145.13- No PL |
| Wells 444.30+ | No PL |
| Gladstone | |
| IRLP 4013 147.55 Smpx | 100.0 |
| Champion 146.82- | 100.0 |
| Cooks 146.70 - | 110.9 |
| GrdMarais 147.195+ | No PL |
| Gwinn 146.64 | 100.0 |
| Iron Mtn 146.85 - | No PL |
| Iron River 145.17- | 107.2 |
| Ishpeming 146.91- | No PL |
| IRLP 8993 443.50+ | 100.0 |
| Manistique 146.79 - | No PL |
| Marquette 146.97 - | No PL |
| | 147.27+ 100.0 |
| | 444.80+ |
| | No PL |
| Menominee 147.00+ | 107.2 |
| Newberry 146.61 + | No PL |
| | 147.09+ 114.8 |
| Republic 147.09+ | No PL |
| Trenary 147.03 + | 100.0 |
| Wetmore 145.41- | 100.0 |

ARRL Affiliated Club Area Nets

UP Net 3921khz
Daily 5pm EST
Sunday Noon EST

UP CW NET 3590khz
Sunday 7pm EST

160 Net 1895khz
Everynight 0100UTC
Dailey 0600UTC

Midcars 7258khz
Daily 0730am EST
0200pm EST

Outhcars Node 9614
Saturday 0900am EST

UP Echolink Node 9617
Sunday 8pm EST

Delta County ARES
147.150
Sunday 7pm EST

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

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

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

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

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

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

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

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

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

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

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

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

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

Vice President

Scott Jarmusch, KA8TFF

Secretary:

Joe Ferris, KC9TQR
irferris@borderlandnet.net

Treasurer:

Burt Armbrust, WB8EB
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Editor:

Tom Heyboer, KC8TH
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Heyboer.tom@gmail.com

Web Editor:

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

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 GR Master Pro, 40 watt output. The 440 MHZ repeater is a GE Master Pro, 80 watt output. The repeaters share a Diamond dual band antenna at a tower height of 125 ft.

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.

*Hear on any Events in the UP / Wisconsin Area
Send Info to the Newsletter Editor so the Info can get out*

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

DX Code Of Conduct

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

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

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

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

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

I will always send my full call sign.

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

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

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

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

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

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

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

MEMBERSHIP

| Call Sign | Last Name | First Name | City | Phone | Email |
|------------------|------------------|-------------------|---------------|--------------|--|
| KD8GHG | AHO | ROGER | QUINNESEC | 906-774-3552 | rogeraa@chartermi.net |
| N8WQG | ANDERSON | LE ROY | CRYSTAL FALLS | 906-265-3960 | n8wgg@fast-air.net |
| 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 |
| KD8POR | BEY | DANA L. | KINGSFORD | 906-774-7937 | lst797@charter.net |
| W9MB | BOILEAU | MIKE | NIAGARA | 906-563-1350 | w9mb@uplogon.com |
| K8DDB | BRAY | MIKE | VULCAN | 906-563-7020 | mikebray@chartermi.net |
| KC9SBY | BROSCHART | FRED | NIAGARA | 715-251-1423 | broschart.fred@gmail.com |
| KE9L | CASWELL | SKIP | IRON MOUNTAIN | 906-774-3371 | acaswell4238@charter.net |
| KD8GLO | COSTA | ART | KINGSFORD | 906-774-7388 | catraxcavator@hotmail.com |
| KC9ZBC | DOLATOWSKI | SCOTT | GOODMAN | 715-633-1006 | kc9zbc@live.com |



| Call Sign | Last Name | First Name | City | Phone | Email |
|---------------|-------------|-----------------|------------------|--------------|--|
| KC8CKX | FAULKNER | JAMES | FOSTER CITY | | jcbearit@yahoo.com |
| KC9TQR | FERRIS | JOE | FLORENCE | 517-589-4386 | jrferris@borderlandnet.net |
| N9MBG | FRY | EDWARD | 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 | | |
| KD8WAK | HEBERT | STEVEN | IRON MOUNTAIN | 906-221-2507 | viparsteve@yahoo.com |
| 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 | | |
| HC8SZP | JOHNSON | DEBBY | IRON MOUNTAIN | 906-396-9323 | |
| KC8RYY | JOHNSON | STEVE | IRON MOUNTAIN | 906-396-5292 | kc8ryy@outlook.com |
| 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 |
| KC9KWS | MAXWELL | RED | FLORENCE | 574-855-8666 | kc9kws@yahoo.com |
| WA8FXQ | MEYERS | BOB | VULCAN | 906-390-0119 | meyersb@uplogon.com |
| KC8LRP | MEYERS | MARGE | VULCAN | 906-396-8913 | mgmeyer@uplogon.com |
| KD8GLP | MIERAS | NATE | KINGSFORD | 616-240-6919 | kd8glo@gmail.com |
| N8TUM | MILLER | TIMOTHY | MILWAUKEE | | |
| 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 | 715-887-2892 | 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 |
| KC8JRH | SCHLITT | PETER | NORWAY | 906-563-8126 | peteschlitt@yahoo.com |
| KD8KUF | SCHULTZ | PAUL | KINGSFORD | 906-774-8900 | pauls@schultzequipment.com |
| KD8CCP | SKAUGE | STEVE | ISHPEMING | 906-458-4798 | kd8ccp@yahoo.com |
| KG9Y | THOMAS | DAVE | NIAGARA | 715-251-1393 | kg9y@arrl.net |
| KB8SPB | BILL | BERTOLDI | KINGSFORD | | |
| KD8KUI | ADAM | DENNIS | IRON MOUNTAIN | 906-774-8129 | duferdoc@chartermi.net |
| KD8QEX | AMICANGELO | PERRY | VULCAN | 906-563-8076 | perryamicangelo@msn.com |
| K8SWX | BEURJEY | DENNIS | KINGSFORD | 906-282-4440 | dbeurjey@gmail.com |
| KC8QZG | DAKE | DAVE | NEWBERRY | | - |
| KD8LQK | HULL | ADAM | NIAGARA | 715-251-1302 | hullar13@baycollege.edu |
| KD8SZA | LASEN | MICHELL | NORWAY | 231-510-0202 | myln1973@gmail.com |
| KB8YEU | O'BRION | JACK | NORWAY | 906-396-3316 | jobrion@sbcglobal.net |
| KD8DJK | SCHUTTE | JOE | VULCAN | 906-563-8273 | dschutte@uplogon.com |



Please remit dues to:

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

Name: _____

Call Sign: _____

Address: _____

City, State, Zip: _____, _____, _____

Email Address: _____

Phone: _____

ARRL Member? Yes _____ No _____

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

Annual dues for Full Membership -

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

If family membership, please list additional:

Names: _____

Call signs: _____

City, State, Zip: _____

Annual dues are Payable January 1st.

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