

Mich-A-Con RF

Iron Mountain, Michigan

October 2006

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MY FIRST ANTENNA PROJECT STEVE KD8CCP

I have a 6 meter All Mode Yaesu Ft-625 RD rig I want to work and I have a limited budget so I decided the best way to get on the air is to make my own antenna. I did some reading and some research on the internet. I have to admit the subject of antennas is a bit overwhelming to me. It is quite amazing to me that by applying power to a specific length of wire I can talk on certain frequencies! I was very happy when Scott, KA8TFF, of Iron Mountain invited me over to his house this past month and gave me a great tour of his "antenna farm". Beams, towers, dipoles and more, Scott seems to have a great "crop" of antennas! The best part of the trip was a sketch Scott gave me of a basic 6 meter antenna along with instructions for building it. It looked like a project I could tackle.

The materials were simple, ½" conduit, 2" PVC and some bolts. Scott gave me some pretty explicit instructions on lengths and even where to drill the holes for the bolts. I had a friend cut the PVC pipe with his table saw because it needed to be split down the middle. I simply drilled the holes for the bolts with a standard drill, being careful to make sure the holes would line up. A drill press would have made it simpler, but I like a challenge. (I now have new respect for the "hole drilling people" at the knock down furniture plant... no more complaining when the holes are a little off when I am putting something together!)

The next part of the project will be the feed line. I plan on putting a short feed line with a connection on the end so I can take the antenna with me. I live in an apartment so if I run the line from the radio, outside and terminate it there I can leave it in place and simply take the antenna down when not in use. I have not soldered connections since high school so this part of the project should be fun too. I have one of the new ColdHeat soldering tools I plan to utilize. It will be a good test for the tool and me!

I also purchased an MFJ-969 (used) so I can make sure the SWR is acceptable, plus tune the antenna to its optimum performance. I was lucky to note in this month's *QST* magazine there is a good article on SWR. It is one thing to pass the tech exam and quite another to put all this technology to work.

When I decided to get my license I did not plan on doing anything other than getting on the air and talking with other HAMS, and maybe helping out with community events. This "home brew" project is giving me some great experience into another avenue of Amateur Radio.

Thanks to Bruce, KB8RJV I not only have the 6 meter radio, but an interest in this type of project. Bruce said it is easy and simple. A true statement, but I like to know the details of why it all works and that is exactly why Bruce suggested I do this project.

FCC RELEASES LONG-AWAITED "OMNIBUS" AMATEUR RADIO REPORT AND ORDER

**From: The ARRL Letter/American Radio Relay League
The ARRL Letter, Vol 25, No 41 (Oct 13, 2006)**

Ending a protracted waiting period, the FCC's Report and Order (R&O) in the so-called "omnibus" Amateur Radio proceeding, WT Docket 04-140, was adopted October 4 and released October 10. In it, the FCC adopted nearly all of the changes it had put forth in its 2004 Notice of Proposed Rulemaking (NPRM) in the proceeding. **The R&O the FCC released this week does NOT include action on the Commission's proposal to eliminate the Morse code requirement. A Report and Order in that proceeding, WT Docket 05-235, is pending.**

ARRL President Joel Harrison, W5ZN, expressed the League's gratitude to the FCC for acting this week in the wide-ranging proceeding. "On behalf of the ARRL and the Commission's licensees in the Amateur Radio Service I want to express appreciation for your release yesterday of the Report and Order in WT Docket 04-140 (FCC 06-149) amending Part 97 of the Commission's Rules," Harrison wrote October 11. "The Commission's action in clearing this pending proceeding will assist the Amateur Radio Service in meeting its objectives, particularly with regard to providing emergency and public service communications."

The new rules are expected to become effective later this year. Among the highlights in the October 10 Report and Order, the FCC:

- * "Reformed" the current Novice/Tech Plus bands to expand certain phone subbands;
- * Agreed to allow Novice and Tech Plus licensees to operate CW in the General class CW subbands on 80, 40, 15 and 10 meters.
- * Implemented rules to discourage multiple vanity call sign filings on the same day from the same applicant;
- * Permitted auxiliary stations to transmit on portions of the 2 meter band;
- * Permitted amateur licensees to designate a specific Amateur Radio club to receive their call sign in memoriam;
- * Eliminated certain restrictions governing the manufacture, marketing and sale of external RF power amplifiers intended for Amateur Radio use;
- * Clarified that "amateur stations may, at all times and on all frequencies authorized to the control operator, make transmissions necessary to meet essential communication needs and to facilitate relief actions";

- * Deleted the requirement to publicly announce Amateur Radio examination locations and times;
- * Deleted the frequency bands and segments specified for Radio Amateur Civil Emergency Service (RACES) stations.

In response to an ARRL Petition for Rule Making, the Commission agreed to "refarm" the HF segments currently authorized to Novice and Technician Plus licensees. The reallocation will expand the phone subbands for General, Advanced and Amateur Extra licensees, although not all commenters agreed with the idea. "We are persuaded, however, by ARRL's contention that increasing the amount of spectrum for voice communications will reduce interference among stations using voice communications," the FCC said in its R&O, "thereby benefiting all licensees." The FCC said authorizing more phone spectrum would "more closely reflect licensees' operating preferences" and mean more efficient spectrum use.

On 75 meters, the FCC went well beyond the modest expansion the ARRL had proposed and the FCC had tentatively adopted in its 2004 NPRM. Generals will be able to operate on phone from 3800 to 4000 kHz, Advanced class licensees from 3700 to 4000, and Amateur Extras from 3600 to 4000 kHz -- greatly reducing the amount of 80-meter spectrum available for RTTY and data (the only segment where automatically controlled digital stations may operate on 80 meters is 3620 to 3635 kHz). The FCC said the amateur community wanted as much phone spectrum as possible. "Indeed, a number of commenters argue that the NPRM proposal to increase the amount of spectrum permitted for voice communications would still not meet the demand for voice communication spectrum in the HF bands, particularly in the 80 meter band," the FCC said.

On 40 meters, Advanced and Extra Class licensees will be able to operate phone from 7125 to 7300 kHz, and Generals from 7175 to 7300 kHz.

On 15 meters, General class operators may operate phone from 21,275 to 21,450 kHz. The FCC affirmed its intention to permit Novice and Tech Plus (or Technician with Element 1 credit) licensees to operate CW in the current General exclusive-CW allocations on 80, 40 and 15 meters and CW/data on 10 meters, where the FCC provided an additional 100 kHz for Novice/Tech Plus licensees. Novice/Tech Plus licensees still may run no more than 200 W PEP, but the Commission has done away with Novice band power limitations for higher-class licensees.

The FCC revised its vanity call sign rules to discourage the filing of multiple applications for the same call sign on the same day, and many commenters supported this concept. As implemented in §97.19(d)(1), if the FCC receives more than

one application requesting a vanity call sign from a single applicant on the same receipt day, it will process only the first application entered into the Universal Licensing System. "Subsequent vanity call sign applications from that applicant with the same receipt date will not be accepted," the rule concludes. "We are persuaded that we should adopt rule amendments to discourage multiple vanity call sign applications," the FCC said in the R&O, "and we believe that a one-application-per-day-per-applicant rule, as requested by ARRL and others, will eliminate multiple applications requesting the same assignable call sign on the same day." The FCC concedes that its one-application-per-day rule "will not prevent an individual from requesting multiple vanity call signs per se," because an applicant may request up to 25 call signs at a time. When the FCC receives multiple valid applications from several individuals requesting the same vanity call sign as a first choice on the same day, it uses a lottery system to decide which application to process first

. The R&O also affirms changes to Part 2 and Part 97 rules the FCC had proposed regarding the manufacture, marketing and sale of external RF power amplifiers. Current FCC rules prohibit commercial manufacturers from marketing RF power amplifiers capable of transmitting on the 12 and 10 meter bands. The rules were put in place as a way to prevent use of such amplifiers by CBers. "We agree with ARRL that the requirements imposed on Amateur Radio operators by the current rule are unnecessary because, under the present rules, 'the equipment, once authorized, can be modified to transmit on all amateur service frequency allocations,' and that revising the rule 'will enhance use of the 12 and 10 meter amateur bands,'" the FCC said. To prevent the use of Amateur Radio amplifiers by CBers, the FCC says manufacturers of Amateur Radio amplifiers must design their products to avoid operation between 26 MHz and 28 MHz. They also must certify that amplifiers are not easily modifiable to operate between 26 MHz and 28 MHz prior to a grant of equipment certification. The various rule changes become effective 30 days after their publication in the Federal Register <http://www.gpoaccess.gov/fr/index.html>.

A copy of the R&O appears on the FCC Web site: http://hraunfoss.fcc.gov/edocs_public/attachmatch/FCC-06-149A1.pdf.

ARRL has posted a list of Frequently Asked Questions (FAQs) regarding the R&O <http://www.arrl.org/announce/regulatory/wt04-140/faq.html>.

A downloadable chart shows the band changes http://www.arrl.org/announce/regulatory/wt04-140/Hambands3_color.pdf.

(See Chart in this Issue.)

Mich-A-Con Amateur Radio Club **Minutes of the October 10, 2006 Meeting**

The meeting was called to order by President Tom Martin, W8JWN, at 6:32 PM.

Secretary Report:

The minutes of the September 12th meeting were read and approved.

Treasurer Report:

No report, the Treasurer was absent.

Repeater Report:

Lee, N8LT, reported that the 444.850 repeater has been repaired and will be returned to service tomorrow. The 146.85 repeater was noisy and had a weak signal today. Something may have been disturbed by the removal of the 440 repeater as they share a common antenna. Lee will check into it tomorrow.

Old Business:

ARES:

The SET scheduled for October 7th was cancelled and will be rescheduled in November.

Emergency Generator:

Scott Celello, Dickinson Co. Sheriff's Department's Emergency Services Coordinator, has approved the purchase of the generator. Because the Honda 3800SX is about \$400 less than the original quote, Scott wanted to know what we would spend the extra money on. Items discussed were: heavy duty extension cords, surge protector power strips, portable halogen lights, etc.

Packet:

Packet radios, TNCs, etc., will be moved from the Metropolitan site to Pine Mountain soon. The antennas will remain at Metropolitan until the Pine Mountain site is proven to be satisfactory. Lee, N8LT and Mike, K8DDB, will move the equipment to Pine Mountain. Lee will call for additional help if needed.

"Share A Radio Experience":

The transceiver is a 2-meter hand held. It belongs to Randy, KB9ZES, and he will act as custodian. It will be loaned to new hams in

the club that do not have a transceiver of their own.

New Business:

Gene Meyers of GM Communications in Iron Mountain has requested that we provide him a list of club members for discounts on coaxial cable, connectors, antennas, etc.

For the Good of the Order:

James "Red" Maxwell of Beecher and Gavin Rogers of Pembine introduced themselves to the group. They are both interested in amateur radio and plan to take the Technician exam in November. Following introductions, members discussed the activities they were presently involved in.

Adjournment:

The meeting was adjourned at 7:25 PM.

Submitted by: Mike Bray

Attendees:

Mike Bray, K8DDB - Secretary
Skip Caswell, KE9L
Bob Uren, KC8TWG
James "Red" Maxwell – Guest
Burton Armbrust, WB8EBS
Tom Martin, W8JWN - President
Lee Michaud, N8LT
Gary Schafer, K4FMX - Guest
Randy Zandt, KB9ZES
Gavin Rogers - Guest

Visit the Mich-A-Con web site:

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

“SHARE THE RADIO EXPERIENCE PROGRAM” STARTED

Randy, KB9ZES will be acting as custodian for a 2-meter hand held radio that will be loaned out to new hams in the club that do not have a transceiver of their own.

Randy suggested the program earlier this year as a way for the new hams to get on the air as soon as possible. We all remember waiting for our license to be published and then just to have the experience of actually talking to someone is awesome.

If you know of a ham that can benefit from this program please contact Randy and get them on the air. This is a great service Mich-A-Con is offering to promote Amateur Radio!

Preview the Auction Now.

The ARRL is having the First - Ever On-Line Auction. The auction will run from October 23rd until November 3rd 2006. You can preview the items now by going to :

www.arrl.org/auction

Browse Items. You'll find HF and VHF transceivers, ARRL Lab tested and reviewed equipment, exotic vacations, antennas, Amateur Radio jewelry, robotic kits, rare books, vintage gear and more!

Register Now or anytime during the auction. **Although bidding will not begin until October 23, 2006 at 10AM ET, please feel free to register and browse through just some of our auction items.**

Through the generosity of many donors, we have assembled a diverse list of items. Be sure to check in frequently as we plan to add more items as the auction gets underway. The ARRL On-Line Auction will benefit a wide range of ARRL education programs. These encompass activities designed to license new hams, strengthen Amateur

Radio's emergency service training, offer continuing technical and operating education with distance learning courses, and create varied instructional and educational materials.

Club patches are available from:

**Dennis Beurjey, K8SWX
612 Balsam Street
Kingsford, Mi. 49802**

They are 3 inches in diameter and sell for \$3.00 each. If ordering by mail, please include a self addressed stamped envelope along with your payment.

**New FCC Rules for ARES
from: The ARES E-Letter October 18, 2006
Rick Palm, K1CE Editor**

FCC News: Part 97 rules have been changed from limiting amateur communications in support of relief actions to disaster situations when normal communications were overloaded, damaged, or disrupted, to allowing amateurs at all times and on all frequencies authorized to the control operator to meet essential communications need and facilitate relief actions.

This relaxation of the rules should eliminate questions and confusion that have historically put up hurdles to using Amateur Radio in emergencies. In its Report and Order, the FCC also acknowledged one of the key purposes of Amateur Radio is to provide emergency communications to the public.

It is always good to see that affirmation by the FCC from time to time.

**Words from the president...
Tom Martin W8JWN**

Well, my duties as “ham gear advertiser/packer/shipper” are finally winding down. It has been a busy three and a half months. I hope that everyone is in good health and accident free because I don’t want to do this again for quite awhile! I have learned a few valuable lessons from this experience that I will pass along.

First, be sure to get an accurate shipping charge before settling on a final price for an item. I just assumed, on some items, that \$5 would be enough for shipping. I was wrong! A small four-pound box of insulators sent to southern Wisconsin by FedEx was \$8.95! You can send 50 pounds in a USPS Flat Rate box for \$8!!! I could have saved \$.95 by using the Flat Rate box. So, my \$20 sale plus \$5 for shipping cost me \$4. This can add up after awhile. It is best to look up the postage or shipping charges on the USPS, FedEx, or UPS web sites. These are very accurate.

I have also learned that even FedEx can damage gear during transit. I’d heard horror stories about UPS; so, I used FedEx for some of the heavier and expensive gear. There was damage to one radio but the buyer easily repaired the unit. I have found that the USPS handles their packages with greater care than UPS or FedEx. I had one fellow specifically state that he wanted the tubes sent by the USPS.

Finally, BEWARE of the crooks out there that are running the counterfeit postal Money Order scheme. I received \$2500 for \$300 worth of tubes. The buyer wanted me to send the balance to the shipper. The shipper was going to pick up some other items in the states and send them to Europe. Ha! If I hadn’t have known that the MO was a fake and had deposited it to my bank account, I would have had to cover the \$2500! So, if Danny Brown offers to buy your 2-meter rig for ten times its value, watch out!

Mich-A-Con ARC Activities for November 2006

Mich-A-Con ARC Activities for November 2006						
SUN	MON	TUE	WED	THUR	FRI	SAT
			1	2 ARES	3	4
5 UPSN	6	7	8	9 ARES	10	11
12 UPSN	13	14 MEETING	15	16 ARES	17	18 BREAKFAST
19 UPSN	20	21	22	23 Thanksgiving	24	25
26 UPSN	27	28	29	30 ARES		

CLUB ACTIVITIES

The Upper Peninsula 2-meter Social Net (UPSN) is conducted every Sunday at 7:00 PM Central Time on the 146.850 repeater. This is to replace the Tuesday Night Net which did not have much activity. Dennis, K8SWX, will facilitate the link from our repeater to the other participating stations via EchoLink.

ARES Nets are conducted at 6:30 PM Central Time every Thursday evening on our 2-meter repeater (146.850 MHz). **(Except Holidays.)**

Meeting: The Mich-A-Con Amateur Radio Club meets on the second Tuesday of the month at 6:30 PM in the Grace United Methodist Church, (upstairs in the room next to the sanctuary), 721 Norway Street in Norway, Michigan. Visitors and prospective members are always welcome!

Our Saturday Morning Breakfast is held on the 3rd Saturday of every month at 9:00 AM in the Holiday Kitchen Restaurant on Stephenson Avenue (US-2) in Iron Mountain, across from Econo Foods. Why not enjoy a good meal and camaraderie with your fellow members?

The UP 2-Meter Social Net is held on Sundays at 7:00 PM on the 146.850 repeater.

REPEATERS

The club maintains two repeaters, which are located on Pine Mountain in Iron Mountain, with tower and facilities provided by the Wisconsin Electric Power Co.

Identifier: WA8FXQ/R IMT

Output	Offset	PI Tone
146.850 MHz	Minus	----
444.850 MHz	Plus	100

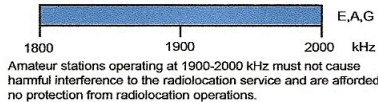
Both repeaters have an auto patch with a toll restriction. The auto patch on the 2-meter repeater can be used with permission. The 440 auto patch is for club use only.

An ARES/RACES net is held on the 146.850 repeater every Thursday at 6:30 PM. Dennis, K8SWX is the net manager. **Note: The Net is Not held on Holidays.**

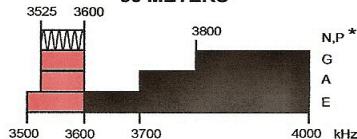
US Amateur Bands

ARRL The national association for
AMATEUR RADIO

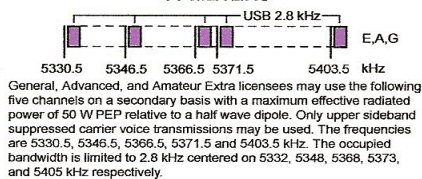
160 METERS



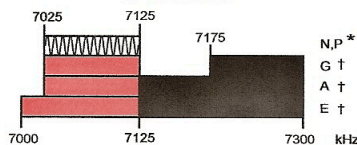
80 METERS



60 METERS

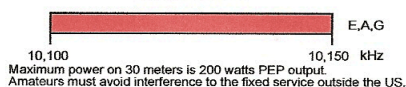


40 METERS

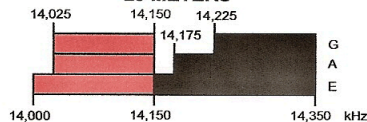


† Phone and Image modes are permitted between 7075 and 7100 kHz for FCC licensed stations in ITU Regions 1 and 3 and by FCC licensed stations in ITU Region 2 West of 130 degrees West longitude or South of 20 degrees North latitude. See Sections 97.305(c) and 97.307(f)(11). Novice and Technician Plus licensees outside ITU Region 2 may use CW only between 7025 and 7075 kHz. See Section 97.301(e). These exemptions do not apply to stations in the continental US.

30 METERS



20 METERS



17 METERS

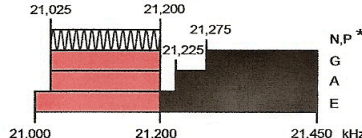


Effective Date Pending

This chart reflects changes in Part 97 of the FCC Rules that were adopted on October 4, 2006 and released on October 10, 2006. The changes have not taken effect and will not take effect until 30 days after publication in the Federal Register. The effective date is unknown and will be publicized as soon as it is known.

There are some apparent errors in the rules as released. The charts reflect ARRL's best understanding of what the FCC intended. Clarifications are being sought and the chart will be amended as required.

15 METERS



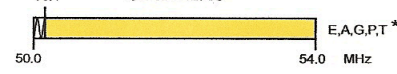
12 METERS



10 METERS



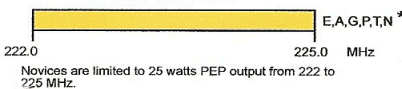
6 METERS



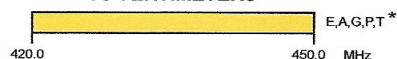
2 METERS



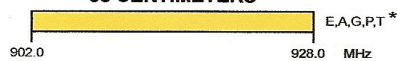
1.25 METERS ***



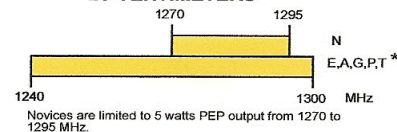
70 CENTIMETERS **



33 CENTIMETERS **



23 CENTIMETERS **



US AMATEUR POWER LIMITS

At all times, transmitter power should be kept down to that necessary to carry out the desired communications.

Power is rated in watts PEP output. Unless otherwise stated, the maximum power output is 1500 W.

Power for all license classes is limited to 200 W in the 10,100-10,150 kHz band.

Novices and Technicians are restricted to 200 W below 28.5 MHz.

In addition, Novices are restricted to 25 W in the 222-225 MHz band and 5 W in the 1270-1295 MHz subband.

KEY

- = CW, RTTY and data
- = CW, RTTY, data, MCW, test, phone and image
- = CW, phone and image
- = CW and SSB phone
- = CW, RTTY, data, phone, and image
- = USB Phone only

E = AMATEUR EXTRA
A = ADVANCED
G = GENERAL
P = TECHNICIAN PLUS
T = TECHNICIAN
N = NOVICE

* Technicians who have passed the 5 wpm Morse code exam are indicated as "P".

** Geographical and power restrictions apply to all bands with frequencies above 420 MHz. See *The ARRL FCC Rule Book* for more information about your area.

*** 219-220 MHz allocated to amateurs on a secondary basis for fixed digital message forwarding systems only and can be operated by all licensees except Novices.

All licensees except Novices are authorized all modes on the following frequencies:

- 2300-2310 MHz
- 2390-2450 MHz
- 3300-3500 MHz
- 5650-5925 MHz
- 10.0-10.5 GHz
- 24.0-24.25 GHz
- 47.0-47.2 GHz
- 76.0-81.0 GHz
- 122.225-123.0 GHz
- 134-141 GHz
- 241-250 GHz
- All above 275 GHz



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membership@arrl.org
newham@arrl.org
vec@arrl.org

AUTO PATCH PROCEDURES

Did you know our Club has an Auto Patch on both of our Repeaters? The 2-Meter repeater can be used with permission and the 440 repeater is for club use only. The auto patch can be used for making local phone calls from your radio. Remember that you can make calls for most things.... even order pizza, but it is not to be used for business purposes. Here is what to do:

- **LISTEN.** If the repeater is open proceed.
- Key up the repeater and identify yourself. IE: "This is KD8CCP Accessing Auto Patch."
- **Push the transmit key and press the * key.** This should give you a dial tone.
- Push the transmit key again and dial as normal. Talk as you normally would on air but remember to tell the person called you are on the air.
- Inform the called party to pause when you are talking because you will not be able to hear them while transmitting.
- When you are done with the conversation **push the transmit key again and push the # key.** This releases the repeater.
- Identify yourself and release the repeater.

Now its your turn. Next time you are on the air and it seems quiet... experiment ... try out the Auto Patch. It is important for all HAMS to be familiar with the auto patch procedures for emergency use too!

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Mich-A-Con RF is published by the Mich-A-Con Amateur Radio Club of Iron Mountain. Items for Mich-A-Con RF should be in the editors hands by club meeting day (2nd Tuesday of the month) to be included in that month's edition. Please consider writing and article related to Amateur Radio to share with your fellow members. Send the article in plain text and attach any photos, etc., do not worry about the format, that's the editor's job.

Send to: sjsace@sbcglobal.net
(906) 779-5720

Permission is hereby granted for the reproduction of material found in Mich-A-Con RF unless otherwise noted, provided that proper credit is given to the author and Mich-A-Con ARC.

CLUB EQUIPMENT LIST

TOM MARTIN W8JWN has custody of the following club equipment:

- Gin pole for Rohn tower sections with 100 feet of rope.
- Small TV type rotor and control.
- Dipole antennas for 80,40,20,15 and 10 meters with 50 feet of RG58 coax.
- Various lengths of string for antennas (not very heavy).
- RG8X with double shield (100 ft).
- 3/16 Single Braid Dacron rope (200 ft).
- 20 meter open stub (nulls 40 and 15 meters).
- 40 meter shorted stub (nulls 20 and 10 meters).
- 40 meter shorted stub (nulls 15 meters).
- 6 PL259 silver connectors.
- 4 T-adapters for stubs.
- 4 UG-176 silver sleeves.
- 3 right-angle connectors.
- Hygain tri-band beam antenna.
- G5RV antenna.
- Club banner.

MIKE BRAY K8DDB has custody of the following club equipment:

- 40 foot light tower.
- Lafayette 80 - 10 meter tube type VFO #99-2501 with operating manual.
- J-38 Morse code straight key.
- Lambda model LT-2095A-1583 power supply 0 to +-32VDC, 2 amp (rack mount).
- Multi-meter ME-26D/U (old military type) by Sentinel Electronics, Inc.
- Power supply (partially built - home brew).
- Duplexer (rack mount - home brew) TX and RX cans- possibly 440 MHz.

Links

ARRL WEB PAGE: <http://www.arrl.org>
ARRL MICHIGAN: <http://www.arrl.mi.org>
US REPEATERS: <http://www.usrepeaters.com>
MICH-A-CON : <http://www.qsl.net/ka1ddb>
Tropospheric Ducting Forecasts:
<http://www.dxinfocentre.com/tropo.html>
FCC Universal Licensing System:
<http://wireless.fcc.gov/uls/>
QTH.COM: <http://www.qth.com/>
QRZ.COM: <http://www.qrz.com/>
Ehamnet.com: <http://www.eham.net/>

Mich-A-Con Amateur Radio Club
Membership Application/Renewal Form

Please remit dues to:
Dennis Beurjey K8SWX
612 Balsam Street
Kingsford, Mi 49802

Name: _____

Address: _____

City, State, Zip: _____

Call Sign: _____

Email Address: _____

Phone: _____

ARRL Member? Yes ___ No ___

Annual dues are due in January. Please make checks payable to Mich-A-Con ARC

Annual dues are Full Membership - Single \$20 ___ * Family \$30 ___ * Repeater-Only \$10 ___**

If Family membership, please list additional names and call signs:

*The dues for NEW members are prorated - you only pay for the remainder of the year!

Please remit \$1.67 per month for a Single or \$2.50 per month for a Family membership.

**If you are an occasional or seasonal user of the repeater, please consider our Repeater-Only-Membership

Exam Schedule:

City: Iron Mountain

Location: Dickinson County Library

Room: Conference Room

Time: 9:30 AM Central Time

Contact: Mark Lewis, N8UKD

Telephone: (906) 774-6598

Exam Date: Nov 4th, 2006

Exam Date: Feb 3rd, 2007

Exam Date: May 5th, 2007

Bring two (2) pencils, a pen for the official paperwork, the originals AND copies of any previous credit that you have earned (Certificates of Successful Completion or current license), one (1) photo ID (usually a driver's license), one (1) other ID. (Usually a birth certificate or Social Security Card.) Bring a calculator if needed. (Make sure your memories are cleaned out.) Remember to bring the test fee of \$14 (2006) too!

Repeaters:

The club maintains two repeaters, which are located on Pine Mountain in Iron Mountain, with tower and facilities provided by the Wisconsin Electric Power Co.

Identifier: WA8FXQ/R IMT

<u>Output</u>	<u>Offset</u>	<u>PL Tone</u>
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146.850 MHz	Minus	-----
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444.850 MHz	Plus	100
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Both repeaters have an auto patch with a toll restriction. The auto patch on the 2-meter repeater can be used with permission. The 440 auto patch is for club use only.

An ARES/RACES net is held on the 146.850 repeater every Thursday at 6:30 PM. Dennis, K8SWX is the net manager.

The UP 2-Meter Social Net is held on Sundays at 7:00 PM on the 146.850 repeater.

MICH-A-CON RF

Mich-A-Con ARC
c/o Stephen Skauge
945 Woodward Ave Apt 5
Kingsford, Mi. 49802-4438

Club Meetings:

The Mich-A-Con Amateur Radio Club meets on the second Tuesday of the month at 6:30 PM in the Grace United Methodist Church (upstairs in the room next to the sanctuary), 721 Norway Street in Norway, Michigan. Visitors and prospective members are always welcome!

The URL for the Mich-A-Con ARC web site is:
<http://www.qsl.net/ka1ddb/>

Previous editions of Mich-A-Con Rf can be accessed by a link on the news page.

The ARRL DX Bulletin on the Upcoming Activities page is updated each Thursday and the contests section is updated on a monthly basis.

Club Officers:

President:

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

Vice President:

Mike Boileau N9NBN
(715) 251-3137
n9nbn@borderlandnet.net

Secretary:

Mike Bray, K8DDB
(906) 563-7020
mikebray@chartermi.net

Treasurer:

Dennis Beurjey, K8SWX
(906) 771-1996
dbeurjey@msn.com

Reminders:

Club dues for the year 2006 were payable on January 1st. Please use the Membership Application/Renewal form in this newsletter when paying your dues. Checks should be made payable to Mich-A-Con Arc and sent to our Treasurer, Dennis Beurjey, K8SWX, at the address listed on the form. Thank-you for supporting your club!

The monthly meeting for November is on Tuesday the 14th at 6:30 PM in the Grace United Methodist Church, 721 Norway Street Norway Michigan. (Upstairs in the room next to the sanctuary.)

