

# Mich-A-Con RF

Iron Mountain, Michigan

May 2004

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Visit the ARRL's web site at:  
<http://www.arrl.org>

## Get On The Air!

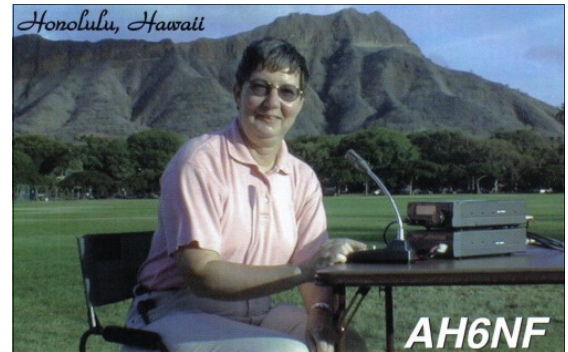
No, this article isn't about Field Day. It's for those of you with a competitive spirit. It's about working toward DXCC, WAS or CQ's USACA with a passion. It's about the thrill of the chase and the awards that are earned along the way.

Maybe, for some of you, the passion is gone after having attained the DXCC Honor Roll or 5-Band Worked All States. What's next? Why not try it again with low power or with a different mode?

There is a fellow in Maryland, Larry, WD3P<sup>1</sup>, who after earning CQ's USA Counties Award using high power and mixed modes, has done it again using QRP CW. Yes, that's 3,077 counties QRP - and get this, the average power per QSO is only 1.08 watts!

There is another fellow in Pennsylvania, John, K3WWP<sup>2</sup>, who has worked 203 DX entities with QRP and simple wire antennas. Also, as of August 4, 2003, he has had at least one QRP QSO per day for 3,287 straight days!

Got your attention? OK, here's the pitch. During your pursuit of DXCC, WAS, WAC, etc., why not work a station twice? Once with your call and then again with the club call. Tom, W8JWN,



29 Mar 2003, 0758 UTC, 40 meters, RST 59, 2x SSB  
AH6NF—Yaesu FT890, 100 watts, vertical dipole  
KC8VC—Yaesu FT1000MP, 1000 watts, 40 meter delta loop

and I have been doing so for a few months now and between us we have worked 137 DX countries (38 confirmed), and 49 states (41 confirmed). Club WAS and DXCC status sheets can be accessed from a link on the membership page of the club web site: <http://www.qsl.net/ka1ddb/>

If you send your QSL card for confirmation of the QSO, it doesn't cost anything more to send the club's QSL card along with it. I've been keeping QSLs for the club call sign in a book and so far we have 89 US and 34 DX cards.

*(Continued on page 3)*

## Mich-A-Con ARC May 11th Meeting

The meeting was called to order by President, Tom Martin W8JWN, at 6:33 PM

### Secretary Report:

Reading of the minutes was waived because the minutes are included in the newsletter.

### Treasurer Report:

The Treasurers Report was presented by Steve KC8RY. As of this meeting, we have \$213.70 in checking, \$2,576.20 in the savings account,

\$1,508.03 in the repeater account and \$12.00 in petty cash. Steve obtained a Certificate of Liability from our insurance carrier, which is required by The City of Norway to conduct Field Day at Marion Park. The Certificate names the city as an additional insured, with liability coverage of \$1,000,000.00 per occurrence. The cost of the additional insurance for Field Day weekend is \$50.00.

*(Continued on page 7)*

## Words from the President

It is apparent after working on the Mich-A-Con RF newsletter with Mike, K8DDB, that we are lucky to have a fine editor and secretary involved with furthering member interest in our club. I believe that this is the best newsletter to come down the pike in many years since I have been involved with the Mich-A-Con ARC. In my opinion, whatever that's worth, our newsletter can hold its own with any of the big clubs found across the country. The graphics and layout are superb. The content month to month is timely and appeals to all member's interests. This has become a mini-QST and CQ Magazine all rolled into one!

Several times, in the last newsletters, Mike has asked for members to contact your president to offer your services for various activities. I have yet to receive ONE call or e-mail! I realize that this time of year is very busy for many of us with spring (?) chores, school graduations looming, and family vacations being planned but PLEASE try to find some free time to help the club for Field Day 2004.

## Club Activities in June

Club Net on Tuesday the 1st, 15th, 22nd and 29th at 6:30 PM on the 2-meter repeater.

Club Meeting on Tuesday the 8th at 6:30 PM.

Field Day on Saturday, June 26 through Sunday, June 27 at Marion Park, across from the fair grounds in Norway.

## Field Day Preparations

Committees have been named, equipment is being rounded up and approval has been granted for the use of Marion Park for Field Day 2004. What we need now is for you to notify Tom, W8JWN, of the role you want to play in this year's Field Day

This is a time to get together with your fellow club members and have some fun. We're not asking for a marathon performance from anyone, if you can only spend an hour or two we want to hear from you!

We need operators for the SSB and CW stations and would like the Techs, etc., that plan to operate the GOTA station to also notify Tom so we know what level of participation to expect.

In addition to committee members identified in the May 11 meeting minutes, Mike, K8DDB, has volunteered for the Scoring & Reporting Committee.

Tom is checking with local businesses to see if they are willing to offer support. We are seeking donations of fuel, food and a power operated lift for our antennas.

Field Day participants are asked to meet at Marion Park at 6:00 PM June 8, a half hour prior to the club's monthly meeting, to assess the site for setup of Terry's motor home, rigging of antenna's, etc.

## Upcoming Events:

### UP Hamfest

August 7, 2004  
Bay-de-Noc  
Community College  
Escanaba, Michigan

### Contests

QRP TAC Contest  
June 5

IARU Region 1 Field Day  
June 5—June 6

Asia-Pacific Sprint  
June 12

WW South American  
CW Contest  
June 12—June 13

ARRL June VHF QSO Party  
June 12—June 14

Kids Day Operating Event  
June 19

All Asian DX Contest  
June 19—June 20

SMIRK QSO Party  
June 19—June 20

WV QSO Party  
June 19—June 20

Quebec QSO Party  
June 19—June 20

ARRL Field Day  
June 26—June 27

QRP ARCI  
Milliwatt Field Day  
June 26—June 27

Marconi Memorial  
HF Contest  
June 26—June 27

Contest dates are UTC  
see the ARRL web site  
June Contests or June QST  
for more information:

<http://www.arrl.org/contests/>

## Mich-A-Con ARC Activities for June 2004

SUN	MON	TUE	WED	THU	FRI	SAT
		1 Net	2	3	4	5
6	7	8 Meeting	9	10	11	12
13	14	15 Net	16	17	18	19
20	21	22 Net	23	24	25	26 Field Day
27 Field Day	28	29 Net	30			

**License Study Materials Available from the ARRL:**

**Technician Class:**

*Now You're Talking* - 5th edition - Order No. 8810 \$19.95

*ARRL's Tech Q&A* - 3rd edition - Order No. 8829 \$12.95

*ARRL Technician Class Video Course* - 4th ed. DVD Course No. 9116 VHS Course No. 8837 \$149 each + \$12 s&h

**General Class:**

*ARRL General Class License Manual* - 4th ed.

Valid through June 30, 2004 - Order No. 8004 \$15

*ARRL's General Q&A* Valid through June 30, 2004 - Order No. 8586 \$12.95

*ARRL General Class Video Course* - Valid through June 30, 2004 Order No. 8349 \$149 + \$12 s&h

*Your Introduction to Morse Code* - Pass 5 wpm test Cassettes No. 8322 Audio CD No. 8314 \$14.95 each

*Ham University - Complete Edition* - Learn Morse code with this easy to use software. Includes a written exam quiz generator with all three question pools. CD-ROM for Win95-XP Order No. 8735 \$39.95

Phone: 1-888-277-5289 or

<http://www.arrl.org/catalog/lm/>

<http://www.arrl.org/catalog/8330/>

<http://hamuniversity.com>

## Get On The Air!

*(Continued from page 1)*

DX QSLs received so far include: TG0AA, Guatemala; CX3AL, Uruguay; 8P5A, Barbados; PT7CB, Brazil; ZK1ZOO, South Cook Is; HC8N, Galapagos Is; J8DX, St. Vincent; FS5UQ, St. Maarten; J6DX, St. Lucia; PJ2T, Curacao; KN5G/6Y5, Jamaica; CT3/W8LU, Madeira Islands; V26K, Antigua & Barbuda; ZS1EL, South Africa; AA1AC/VP9, Bermuda; TI5/W5MP, Costa Rica; YN4SU, Nicaragua; CY9A, St. Paul Island; V44KJ, Nevis; ZF2AH, Cayman Islands; HI9/K8WK, Dominican Republic; ON4UN, Belgium, DL2ARD, Germany; EA4URE, Spain; WL7CDC, Alaska; AH6NF, Hawaii; J7OJ, Dominica; VP5/K7BV, Turks and Caicos Islands; V73NS, Marshall Islands and CO2CI, Cuba.

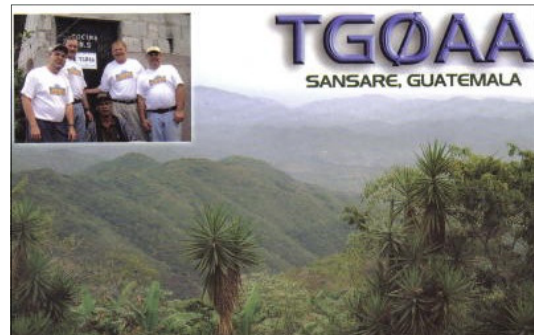
It would be nice to have all club members participate toward attaining these awards (Field Day would be a good time to wrap up WAS.) When the forms are submitted for the award, care will be taken to ensure that all participating members are included in the submittal.

As club call sign trustee, I have been keeping a computer log of all KC8VC QSOs. So, if you use the club call, please notify me as soon as possible so I can enter it into the log. Please give information required for the log such as: station worked, date & time (UTC), frequency, RST sent and received, mode and power. Also

## Club Membership

Of the twenty-eight members that paid dues in 2003, twenty have renewed their membership. May 11th was the deadline for the payment of dues. Those that didn't pay were dropped from the active membership list and will no longer receive correspondence via regular mail. Former members with an up to date email address will, however, continue to receive email as there is no cost to the club to do so.

We were able to attract thirteen new members to the club this year and we are seeking more. A single issue of this newsletter is being sent to a new local Ham every month in an effort to increase club membership. Please pay us a visit at one of our monthly meetings or just complete the application/renewal form on page 9 to become a member.



28 Nov 2003, 2158 UTC, 15 meters, RST 599, 2x CW TG0AA—IC756PROII, 100 watts, 3 el Hi-Gain Yagi KC8VC—Ten Tec Argonaut V, 5 watts, wire vee beam

give me a description of the equipment you were using.

Club QSL cards are available from me. Send me an email or give me a call and I will get them to you.

Get on the air again and rekindle that competitive spirit and don't forget to double your fun by working the station twice!

Mike Bray, K8DDB  
Phone (906) 563-7020  
Email: [mikebray@chartermi.net](mailto:mikebray@chartermi.net)

<sup>1</sup> WD3P, Larry Cahoon, Upper Marlboro, MD  
Web site: <http://www.wd3p.net>

<sup>2</sup> K3WWP, John Shannon, Kittanning, PA  
Web site: <http://home.alltel.net/johnshan/>

## Meeting Night Show & Tell

Pete Treml, K8PT, of Marquette has agreed to give a presentation to our club on his recent DXpedition to Jersey Island. We plan to invite Pete sometime this fall when more members will be able to attend.

Bob, WA8FXQ, didn't give his presentation on ATV after the May meeting. His presentation will be rescheduled for later in the year when his charter fishing business is tucked away for the winter.

Members interested in providing a presentation on any Amateur Radio related topic should contact Tom Martin or Mike Boileau. Or, if you know of a non-member that would like to do so, please let us know that too!

# N3FJP's Logging Software

Scott, N3FJP, and his wife Kimberly, KA3SEQ, have been producing excellent logging software since 1997. The software is available individually or as a package at a very reasonable cost. For example, ALog, the general logging software, is available for as little as \$19.00. Individual contest logging software is available for as little as \$6.00.

A N3FJP Package Deal, including ALog and all of their contest logging programs is available for \$39.00 and as a registered customer of the complete logging package, you will be entitled to receive a password for any new software that is added to the package and free upgrades for the existing software.

A club registering five or more of N3FJP's Package Deals will receive 10% off the total purchase price and will receive a complimentary \$39 N3FJP software package registration for the club.

For more information visit the N3FJP web site:

<http://www.n3fjp.com>

## Features of ALog:

Very easy and intuitive to use!

Tracking of Worked All States, Worked All Counties, Worked All Countries, DXCC, VUCC, Grids, Zones, IOTAs, Lighthouses and many other achievements.

The user interface is completely customizable! You can choose to display any of the 32 data fields you want and where you want them.

Includes a database of counties and countries.

Query by band, mode, or power level to easily track your accomplishments by individual and multiple criteria.

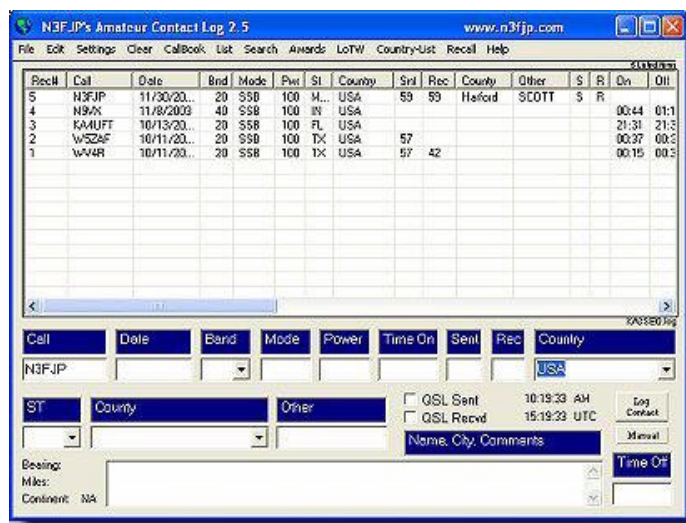
Lists previous contact details with the station currently being worked including name, dates of previous contact(s), QTH, etc.

A bearing and distance calculator from your QTH for DX contacts and grid squares.

Easily import data from our contesting software.

Full support for standard Amateur Data Interchange Format (ADIF) import and export. Export your whole log or selected records in ADIF for applications such as eQSL and the ARRL's LoTW (Log Book of the World).

Easily manage your log and Logbook of the World. ALog will sign and upload your contacts to LoTW and download



Amateur Contact Log (ALog)



Field Day Log

your confirmations from LoTW.

Upload QSOs directly to eQSL.

Interfaces with most Elecraft, Icom, Kenwood, Ten Tec, and Yaesu radios.

Provides DX spotting via Telnet, your packet TNC or AGW Packet Engine. Audio alert for needed spots.

Send keyboard CW via your comm port and play wave files via your sound card.

Quickly print QSL label strips and address labels. Interfaces with the QRZ CD, the Ham Call Buckmaster CD databases and their respective internet lookup services. (K8DDB)

# Logger32 Logging Software

Logger32 is a 32-bit logging program written by Bob Furzer, K4CY. Bob is also the author of Zakanaka, and a 16-bit version of Logger.

Logger32 runs under Windows 95/98, Windows 2000, Windows ME, Windows NT and Windows XP. It is a FREE program found at <http://www.kc4elo.com/page2.html>

Logger32 has been developed to be a highly user configurable general purpose Amateur Radio logbook with computer control support for many radios and antenna rotators. It is NOT a contesting log, although there is no real reason why it could not be used for such, and does not contain some features that might be found in software specifically designed for this activity. The functionality that it DOES provide includes:

## General Features:

Logbook Page Window and Previous QSOs Window can each have up to 47 columns, all user configurable, including IOTA, Grid squares, satellite names, ten-ten etc.

DX spot tables with input from packet or telnet sources (or both at once).

Support for many radios including a debug window.

Support for the use of QRZ.com and GoList via the Internet.

A facility to synchronize your computer clock to an atomic standard.

Previously worked call signs automatically appear under the call sign entry window. (Call sign preview)

Supports both multiple user (One log for the family or Club station) and multiple logs (one for the main, one for contesting etc)

Support for eQSL and Logbook of the World (LOTW).

QSLs waiting to be sent are highlighted in the log.

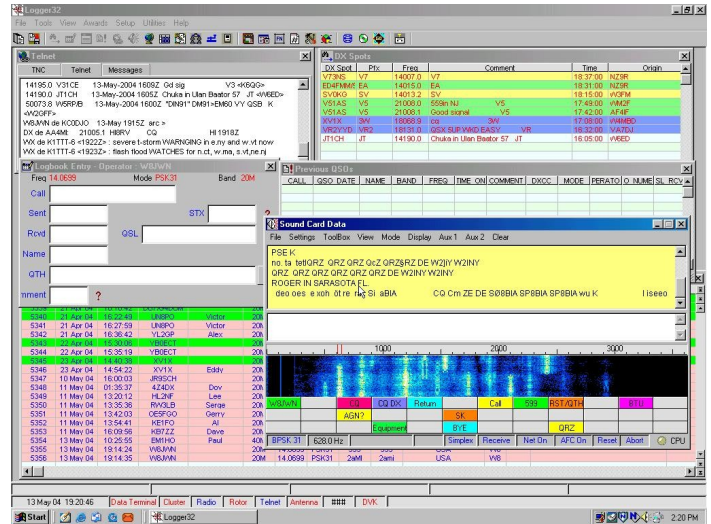
## Digital Features:

Built in version of Zakanaka (the soundcard window) for PSK31/PSK63 and RTTY which includes:

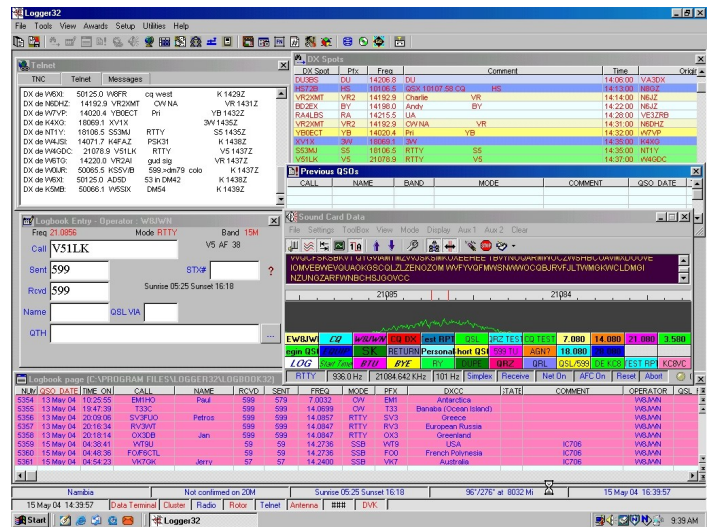
Selectable colors for receive and transmit windows (Tx and Rx windows).

Built in macros for use with a selectable number of programmable "buttons".

Macros with programmable colored keys and number of macros.



PSK 31 waterfall display



RTTY spectrum display

Selectable waterfall and spectrum display characteristics (color, brightness, smoothing).

Operate RTTY (including 23 Hz.) using MMTTY module written by Mako Mori.

Built in CW keyer (but NO decoder) with programmable buttons and a limited range of macros

Support for automatic control of your antenna rotator

User selectable highlighting for worked, confirmed, QSL send, QSL awaiting printing and general editing

Single button compression and saving of back up log files

(Continued on page 8)

## Put BPL Proceeding On Ice For Further Interference Evaluation, ARRL Says

From The ARRL Letter, May 7, 2004

The ARRL has asked the FCC to put its Broadband over Power Lines (BPL) proceeding on hold to allow more thorough research of BPL's interference potential to licensed radio services. Among other things, the ARRL wants to more closely review the lengthy National Telecommunications and Information Administration (NTIA) Part 1 BPL study released April 27. In comments filed May 3 in response to the FCC's February 23 BPL Notice of Proposed Rule Making (NPRM) in ET Docket 03-47, the League also called on the FCC to apply "considerably more conservative radiated emission limits" to BPL than those applying to "normal" Part 15 devices. Five technical exhibits, including an ARRL-commissioned independent study at BPL trial areas and additional research, accompanied the League's comments.

"The Commission cannot be in such a hurry to deploy BPL . . . that it must sweep under the rug the mounting evidence that BPL is a significant source of interference to licensed radio services and is not in the public interest," the ARRL declared.

The League also took the FCC to task for its willingness to balance BPL's presumed benefits against the potential of harmful interference. "The principal obligation of the Commission in permitting unlicensed devices or systems is to establish a radiated emission level that is sufficiently low that by their operation they will predictably not interfere with licensed radio services," the ARRL emphasized.

The ARRL told the FCC that applying existing radiated emission limits to so-called "access BPL" systems is inappropriate. "Those levels are far too high and were designed to address the interference of point-source radiators," the League said. "It is obvious that access BPL systems are distributive, line-source radiators" and the FCC should apply a limit low enough to prevent interference to mobile stations that might operate in BPL-served neighborhoods. The ARRL suggested that 0 dBuV/m at the antenna measured at 10 meters (approximately 33 feet) from the power line would be an "acceptable" radiated emission level.

The League further proposed amending Part 15 rules (§15.109) to require BPL systems to incorporate adaptive interference resolution techniques adequate to cause them to cease operation within an hour following a report of harmful interference to an FCC licensee's station. The BPL system then couldn't resume operation within one kilometer (approximately 0.62 mile) of the complainant's station "unless and until the harmful interference is resolved." The ARRL also would require BPL systems to supply detailed information on their systems to a public Web-based database.

The FCC's NPRM offers no support for its conclusion that interference to licensed services would be minimal, the ARRL said, and it noted that amateur licensees have filed more than two dozen BPL interference complaints with the FCC.

"Some of these interference problems have persisted, notwithstanding the good faith efforts of some BPL service providers to resolve the problems," the ARRL noted. "In other cases, the complaints are simply ignored. None has been adjudicated by the Commission, as far as the ARRL can tell." Instead, the League said, amateurs' BPL complaints "remain under wraps" in the Office of Engineering and Technology instead of being handled by the FCC's Enforcement Bureau, which typically deals with power line noise complaints from radio amateurs.

"Mere mitigation" of interference is not sufficient, the ARRL said. "It is the absolute obligation of the operator of a Part 15 device or system to prevent interference." The League pointed out that the FCC's NPRM does not require interference resolution. "The interference to fixed amateur stations located in residences in normal geographic proximity to overhead power lines will be devastating and will preclude Amateur Radio communications," the League predicted. It called the FCC's proposed mitigation techniques "too little, too late to avoid widespread interference."

Referring to its main BPL study, the League said measurements at one site within a BPL test system in Emmaus, Pennsylvania, "exceeded FCC Part 15 limits by up to 20 DB or more." At another test site in Whitehall, Pennsylvania, using another technology, the study concluded that the BPL signals--while apparently within Part 15 limits--"would have interfered seriously with reception of Amateur Radio signals."

"This proceeding should be placed on hold for a year in order to work out appropriate interference avoidance and resolution standards," the League concluded.

The League was among more than 1000 individuals and entities commenting in the proceeding by the May 3 deadline. Reply comments are due Tuesday, June 1. On the eve of the comment deadline, the FCC denied several requests--including one from the ARRL--to extend the comment period.

The League's comments are posted on the ARRL Web site:

[http://www.arrl.org/announce/regulatory/et04-37/ARRL\\_04-37\\_Comments.pdf](http://www.arrl.org/announce/regulatory/et04-37/ARRL_04-37_Comments.pdf)

**Club Equipment List**

We are making progress on compiling a club equipment list, but it is far from complete.

The idea is to post a list on the club web site of all of the equipment that belongs to the club and who currently has custody of it.

Here's what we have so far:

Tom, W8JWN, has custody of a Jin Pole with 100 feet of rope. The pole is made for Rohn towers.

Steve, KC8RY, has custody of dipoles for 80 meters, 40 meters and 20 meters.

The list can be accessed by a link on the Membership page of our web site:

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

If you have custody of any club equipment, please notify Mike, K8DDB, of what you have. Also notify Mike when you give custody of the equipment to another member.

Email: mikebray@chartermi.net  
or  
Phone (906) 563-7020

**New Repeater Antenna**

On Saturday May 15 Bob, WA8FXQ; Bill, WB9SYG; Lee, N8LT; Terry, KB9ZER and Mike, K8DDB met at the repeater site on Pine Mountain to replace our repeater antenna.

While replacing the antenna, several cable clamps were found to be loose on the tower and were temporarily secured with nylon cable ties. It is felt that this may have been the source of noise heard on the repeater on windy days. The next windy day will tell the tale on whether this theory is true.

The club will notify WE Energies of the loose cable clamps in hopes that a permanent fix can be made.

**Mich-A-Con ARC April 14th Meeting**

**Repeater Report:**

Noise is still being heard on the repeater. Tom attended a NEWDXA meeting in Marinette this past weekend and he was able to access the repeater from there.

**Old Business:**

Storm Spotter training was given to 13 members at the last meeting. We had severe weather in the Iron Mountain area a week later and Tom W8JWN, Jim KB8PTH and Bob WA8FXQ participated in the Storm Spotting. Where was everybody?

The 2-meter net is having a hard time getting started. Members are listening on frequency at the appointed time, but no one has taken charge. Mike K8DDB, was asked to solicit a net control operator.

Tom W8JWN presented the status of Field Day planning. The City of Norway has approved the use of Marion Park's small pavilion from 8 AM Saturday through 4 PM Sunday.

**Committees (\* denotes chairman):**

Publicity: Mike K8DDB\* and Tom W8JWN  
Setup: Terry KB9ZER\*, Lee N8LT, Tom W8JWN and Mike K8DDB  
Operators: Tom W8JWN\*, Mike K8DDB, Steve KC8RY, Terry KB9ZER and Mike N9NBN (relief)

Food: Betty\*, Terry KB9ZER  
GOTA Station/Control Operator: Lee N8LT\*  
Scoring and Reporting: ???  
Tour Guide: ???

**Major Equipment:**

SSB Station: Icom 706MKIIG also for CW, Digital Modes (Tom W8JWN)  
CW Station: Ten Tec Argonaut V - QRP to 20 watts max (Mike K8DDB) and Sierra with gel cell and solar panel for bonus points (Mike K8DDB)  
GOTA Station: Icom 701, if ready (Tom W8JWN and Lee N8LT)  
Backup rig: Kenwood TS850? (Mike N9NBN)  
Antennas: Carolina Windom 40 to 10 meters (Tom W8JWN); Dipoles for 80, 40 and 20 meters (club); Beam, if we have a power lift (Mike K8DDB)  
Laptops: SSB Station (Mike N9NBN)  
CW Station (Mike K8DDB)  
GOTA Station (Steve KC8RY?)

Generators: Motor home (Terry KB9ZER)  
Backup (Jim, KB8PTH)

**New Business:**

Tom W8JWN stated that our repeater is being used mostly by persons from out of the area and wondered whether they have been solicited for monetary support. Mike K8DDB said some of the people were solicited during the January membership campaign.

Steve KC8RY stated that the amount in our checking account is dwindling and would like to have a fund raiser to build it up. It will cost the club around \$350 until the end of the year just for the usual repeater expenses. It was felt that there wouldn't be enough interest among the membership to support a fund raiser and it was voted to transfer \$250 from the regular savings account to the checking account instead. We will also need to make a cash withdrawal from the regular savings account for miscellaneous expenses for Field Day.

Tom W8JWN stated that NEWDXA member Pete Treml, K8PT, made an interesting presentation about his DXpedition to Jersey Island at a recent meeting. Pete said he would be happy to give the presentation to our club. It was felt that the best time to invite Pete would be in the fall or winter when more members are available to attend.

Bob Meyers did not attend tonight's meeting, so his presentation on ATV will be rescheduled for sometime this fall. Apparently the change in the meeting day caused some confusion.

**Adjournment:**

The meeting was adjourned at 7: 20 PM

Submitted by: Mike Bray

**Attendees:**

Mike Bray, K8DDB (Secretary)  
Mike Boileau, N9NBN (Vice President)  
Tom Martin, W8JWN (President)  
Charles Dickinson, W9UOI (new member)  
Martha Dickinson (new member)  
Steve Johnson, KC8RY (Treasurer)  
Paul Hintz, WB8SZI and Carol  
Terry Moriarity, KB9ZER

## Logger32

*(Continued from page 5)*

Built in DVK (Digital Voice Keyer)

DX Cluster spots can be displayed on a map

Selective filtering of DX spots

Synchronization of log to download LoTW and/or eQSL records

User support can be found at:

<http://groups.yahoo.com/group/hamlogger/?yguid=94990708>

This has been my general logging program since I threw away the pencil and paper log in 2001. Since it is a Beta program, new features are continually being added and updates frequently appear. (W8JWN)

## Buy-Sell-Trade

### Free

Yaesu FT207R, 2-meter handy talkie free to someone just starting in ham radio that doesn't have a rig. Includes desk charger, mobile charger and speaker-mic. Possibly needs a new battery.

AI, NG0C  
(906)779-1530

### For Sale

Globe Matcher SR. Model AT-4 Antenna tuner

Cantenna dummy load

Make an offer, or will trade some or all of the above for a good scanner. Need a good base with lots of coverage! Or????

Please email me with any questions/offers

Fuzzy LeQuia  
[fdlequia@up.net](mailto:fdlequia@up.net)

### Wanted

FT243 crystals 3500 to 3560 KHz and 7000 to 7058 KHz

Mike, K8DDB  
[mikebray@chartermi.net](mailto:mikebray@chartermi.net)  
(906)563-7020

### For Sale

Dentron 160-10 AT antenna tuner. It will handle 600 watts easily. No meters. \$60

Radio Shack 10-meter 25 watt mobile/fixed transceiver HTX-10. Like new condition, works great. \$75.00

Tram 1480 VHF/UHF Dual Band (144 and 440) collinear base antenna. Never been used or assembled. \$30.00

1/4 wave 2-meter magnetic base antenna with BNC connector and coax. \$6.00

Tom Martin, W8JWN  
(906)774-5463

### For Sale

Yaesu FT-201, with manual

Heath Kit SB-630 Station Console, (contains Phone Patch, 24hr Clock, and SWR Bridge), with manual

Heath Kit Model HM-15 SWR Bridge, with manual

Mosley TA-33 Beam antenna, (20, 15, 10 meters) with instruction sheet

Cushcraft 2 Meter Beam, with instruction sheet CDR Model CD-HAM II rotor, with controller and instructions

40 Foot Tower

Outercom Electronics Model FM-50A, converted to 6 meters, crystal frequency unknown

\$500 for all of the above.

Don Schettler, WA8AYG  
Phone: (906)774-4377



### **For More**

#### **Buy-Sell-Trade Ads:**

See the buy-sell-trade page on the club web site:

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

#### **Club Apparel:**

Our club apparel is supplied by:

Shirt Tails

408 S Stephenson Ave.  
Iron Mountain, MI 49801

Phone: (906)774-3370  
or  
[finleyd@up.net](mailto:finleyd@up.net)

Prices:

Jacket with liner \$45  
(Tall add \$5, 2X or 3X add \$5,  
to add your name or call sign  
on the front is \$5)

T-Shirt - \$10  
(2X or 3X add \$1)  
Sweatshirt - \$16  
(2X or 3X add \$2)

If you wish to have the club logo printed on an item of clothing that you have purchased elsewhere, there is charge of \$6.

Club patches are available from:

Steve Johnson, KC8RYY  
917 Coolidge Ave  
Kingsford, MI 49802

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



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

Please remit dues to club treasurer:  
Steve Johnson, KC8RY Y  
917 Coolidge Ave  
Kingsford, MI 49802

Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
City, State, Zip: \_\_\_\_\_  
Call Sign: \_\_\_\_\_  
Email Address: \_\_\_\_\_  
Phone: \_\_\_\_\_

ARRL Member? Yes \_\_\_\_\_ No \_\_\_\_\_

Single \$20 \_\_\_\_\_ \*      Family \$30 \_\_\_\_\_ \*

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 membership or \$2.50 per month for a Family 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: Aug 7, 2004  
Exam Date: Nov 6, 2004  
Exam Date: Feb 5, 2005  
Exam Date: May 7, 2005

Examinees should bring 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), 1 photo id (usually a driver's license) and 1 other id. (usually a birth certificate or SS card), a calculator if needed (make sure your memories are cleaned out), and the test fee (2004 fee is \$12).

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 editor's hands by the first week of the month to be included in the next edition.

Our newsletter needs contributions from the membership to help keep the information presented each month new, interesting and fun to read. Please consider writing an article related to Amateur Radio to share with your fellow members. Send the article in plain text and attach any photos, etc., don't worry about format, that's the editor's job.

Send to:  
mikebray@chartermi.net  
(906) 563-7020

## 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	PL 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.

A club net is held on the 2-meter repeater every Tuesday at 6:30 PM except the 2nd Tuesday of the month, which is club meeting night.

# Mich-A-Con RF

Mich-A-Con ARC  
c/o Michael F. Bray  
W3821 Waucedah Road  
Vulcan, MI 49892-8483

Mich-A-Con RF

## 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@netnet.net

#### **Secretary:**

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

#### **Treasurer:**

Steve Johnson, KC8RYY  
(906) 776-1597  
sjohnson4@chartermi.net

## Reminders

**Don't forget that meetings are now held on the second TUESDAY of the month at 6:30 PM (upstairs in the room next to the sanctuary.)**

Field Day participants are asked to meet at Marion Park at 6:00 PM June 8, a half hour prior to the club's monthly meeting, to assess the site for setup of Terry's motor home, rigging of antenna's, etc.

PLEASE call Tom, W8JWN, and let him know what role you want to play in Field Day 2004.

If you have custody of any club equipment, PLEASE notify Mike, K8DDB, of what you have.