



April 2006

Central Michigan Amateur Radio Club



The Scope

Lansing Civil Defense Repeater Association

www.gsl.net/cmars 84 Years of Service to Our Community! www.gsl.net/lcdra

2006 Michigan QSO Party

Attention Michigan Hams. Do the low sunspot numbers and worsening HF conditions have you feeling down? Do you find it difficult to conjure up the energy needed to get on the air and have some fun like in the old days? Do you shy away from participating in ham radio related group activities? If you have any one of, or all of the above symptoms, you may be suffering from Amateur Radio Dysfunction Syndrome, also know as "ARDS".

Fear not! "ARDS" is a condition that can be treated with proper corrective actions. It is a fact that 9 out of 10 doctors agree that the best treatment for "ARDS" is a good dose of "Radio Activity". Doctors also agree that the most efficient delivery method for "ARDS" treatment comes in the form of participation in the 2006 Michigan QSO Party. The number of ARDS patients seeking treatment in the MiQP has been growing every year. Remember, this is a yearly condition, and yearly treatments may be needed. Treatment may be administered in single exposure doses taken in the comfort of your home (Single Op), or when you travel in your car (Mobile). If you are apprehensive about taking the treatment when you are alone, you may be treated within a group session (Multi-op), or as single treatment member of a larger support group like your radio club. Your treatment support group can compete against other ARDS support groups.

Warning! Dosages should not exceed time periods of over 12 hour. Exposure times of less than 12 hours may be appropriate depending on the severity of your condition. Remember, even short exposures to MiQP ARDS treatment will be of benefit to you. If at any time during the MiQP treatment period you experience excessively high "fun" levels, you should consider terminating or reducing the level of treatment. In rare cases excessively high "Fun" levels have been known to last for days after the treatment. If these high levels should persist, see your family doctor.

The Michigan QSO Party ARDS treatment should only be taken as prescribed below.

Date /Time: Michigan QSO Party, sponsored by the Mad River Radio Club, from 1600Z April 15th until 0400Z April 16th. Stations may operate the full 12 hours. (12 noon to 12 midnight local Michigan time on April 15th)

Modes and Categories: Phone and CW on 80/40/20/15/10 meters. Single-op, multi-op, and mobile categories. Single-op entries are categorized by output power, QRP (5W or less), Low Power (100W or less), and High Power (greater than 100W)

Multipliers: Work stations once per band and mode. Work other states and Michigan Stations. MI to MI QSO's are allowed. Work portables and mobiles again as they change county, state or province.

Exchange: Exchange QSO number and location (county for MI stations, state/province or "DX" for others).

Scoring: One point per phone QSO, two points per CW QSO. Count multipliers once per mode. Multipliers are MI counties for all entries, plus states & provinces for MI entries only. Final score is total QSO points times total multipliers.

Freqs: Suggested frequencies: CW-3545, 7045, 14045, 21045, 28045; Phone-3850, 7225, 14250, 21300, 28450.

Log Submittal: Mail logs no later than 30 days after the contest to: Mad River Radio Club, c/o Dave Pruet, 2727 Harris Road, Ypsilanti, MI 48198 or via e-mail to logs@miqp.org

More Information: For complete rules, along with free logging software, log and summary sheets, see <http://www.miqp.org>

All kidding aside, the MiQP is a ton of fun. It has been growing in size every year. We expect this year to be even better! There will be stations on from all 83 counties. Consider making it a club event. This is a great way to get folks on the air. I also ask that you all help spread the word about the 2006 MiQP. Let's all make Michigan "Radio Active" on April 15th!!



SuitSat-1 is now a confirmed "Silent Key." So says its sponsor, the Amateur Radio on the International Space Station (ARISS) program. In operation for more than two weeks, SuitSat-1--designated AO-54--easily outlasted initial predictions that it would transmit for about one week.



Key of the Month by Gregg Mulder

This months Key of the Month is the Speed-X 501 Deluxe Bug. This bug was made by Les Logan of San Francisco from WW 2 through 1954. The bug is very "friendly" to the slower speed operators, and can be adjusted down to about 15-18 words per min. the bug was also known for it's "TEE" handle, which made it easy to transport. Two fingers under the T and the bug was easily carried home at the end of the ops shift.



I am pleased to report that Governor Granholm signed the attached legislation on March 2, 2006 and it became enacted on that date. These changes to Section 508 MCL will take effect 90 days from that date. The holders of all classes of amateur radio licenses will become totally exempt from the receiver restrictions. I suggest that anyone carrying a transceiver capable of receiving public safety frequencies also carry a copy of this Act along with your Amateur Radio License.

73,

Dale WA8EFK

ARRL Section Manager - Michigan

STATE OF MICHIGAN 93RD LEGISLATURE REGULAR SESSION OF 2006

Introduced by Reps. Elsenheimer, Jones, Newell, Nofs, David Law and Sheltrown ENROLLED

HOUSE BILL No. 4544 AN ACT to amend 1931 PA 328, entitled "An act to revise, consolidate, codify, and add to the statutes relating to crimes; to define crimes and prescribe the penalties and remedies; to provide for restitution under certain circumstances; to provide for the competency of evidence at the trial of persons accused of crime; to provide immunity from prosecution for certain witnesses appearing at such trials; and to repeal certain acts and parts of acts inconsistent with or contravening any of the provisions of this act," by amending section 508 (MCL750.508), as amended by 2002 PA672. The People of the State of Michigan enact: Sec. 508. (1) A person who has been convicted of 1 or more felonies during the preceding 5 years shall not carry or have in his or her possession a radio receiving set that will receive signals sent on a frequency assigned by the federal communications commission of the United States for police or other law enforcement, fire fighting, emergency medical, federal, state, or local corrections, or homeland security purposes. This subsection does not apply to a person who is licensed as an amateur radio operator by the federal communications commission. A person who violates this subsection is guilty of a misdemeanor punishable by imprisonment for not more than 1 year or a fine of not more than \$1,000.00, or both. (2) A person shall not carry or have in his or her possession in the commission or attempted commission of a crime a radio receiving set that will receive signals sent on a frequency assigned by the federal communications commission of the United States for police or other law enforcement, fire fighting, emergency medical, federal, state, or local corrections, or homeland security purposes. A person who violates this subsection is guilty of a crime as follows: (a) If this subsection is violated in the commission or attempted commission of a misdemeanor punishable by a maximum term of imprisonment of at least 93 days but less than 1 year, the person is guilty of a misdemeanor punishable by imprisonment for not more than 1 year or a fine of not more than \$1,000.00, or both. (b) If this subsection is violated in the commission or attempted commission of a misdemeanor or felony punishable by a maximum term of imprisonment of 1 year or more, the person is guilty of a felony punishable by imprisonment for not more than 2 years or a fine of not more than \$2,000.00, or both. (3) Subsection (2) does not apply to a person who carries or has in his or her possession a radio receiving set described in subsection (2) in the commission or attempted commission of a misdemeanor punishable by a maximum term of imprisonment of less than 93 days. (4) This section does not apply to the use of radar detectors. Enacting section 1. This amendatory act takes effect 90 days after the date it is enacted. This act is ordered to take immediate effect. ss//Clerk of the House of Representatives ss//Secretary of the Senate Approved ss//Governor

Central Michigan Amateur Radio Club
Minutes of the Meeting (March 3, 2006)

The business meeting was brought to order by club president John Hosford (KC8QZB) at 7:28 p.m.

Members

19 members were present at the meeting.

Visitors

Mary Tillitson
Donna Cote
Stan McCuaig
Jeff Frank (N8HEE)

Cards and Flowers

Dick McGuire (K18C) sent a card to Scott Newfer (W8SRN). In addition, Roger Barnhill (AB8RX) was among several who had sent get-well wishes to Randy McCloy, the lone survivor of the January Sago

Mine disaster in West Virginia. At least three of us received replies from Randy's wife, Anna. Randy is currently undergoing rehabilitation in Morgantown and is improving daily.

Sick or in Hospital

Rocky Beckner (K8DRB) is still recuperating from multiple ailments.

Upgrades and New Licenses

None

Old Business

Minutes of the February meeting had been distributed in The Scope, and copies had been distributed for those who didn't have e-mail. The secretary's report was accepted as submitted. Moved by Currin Skutt (W8FSZ) and seconded.

Concerning Field Day, Ron Harger (WD8BCS) reported that the group holding the reservation at Kamp Kiwanis is operating both VHF and HF, so the two groups can't use the same site. The other group offered to yield to CMARC, but CMARC has decided to honor the existing reservation. We will consider returning to Gardner Middle School, where we operated three years ago.

New Business

Dick McGuire, as acting Treasurer, wrote two checks, \$47.12 for the Azalia for David S Humphreys, and \$50 to renew the club post office box. The post office box had to be renewed on company letterhead.

Don Tillitson (WB8NUS) announced that the weather program is scheduled for April 8th at Dart Auditorium. National Weather Service will be from 11 to 12, 12 to 1 will be lunch break, Kaz Fujita will explain earthquakes in Michigan from 1 to 2, and Jim Wades will spend two hours explaining how to report damage and what damage to report. The cards will be given out at the end of the program. Parking will not be a problem on Saturday.

John Hosford announced that Scott Rowe (AB8VN) had sent a letter about a website listing public and private frequencies used in town. The frequencies range from 530 KHz to 24 GHz. The address is cityfreq.com. Roger Barnhill also offered another site, radioreference.com. Roger's site requires registration but is also free.

Gregg Mulder (WB8LZG) announced that Ziegenbein Award nominations are still open, but we had only 12 days left. The award will be presented at the Ladies' Night Banquet at 6 p.m. on May 6th. The nominations must be made in writing by March 15th. We agreed to accept nominations via e-mail. They may go to Greg, James Kenyon (KC8DJH), or Joe Denomme (N8VYS). Roger Barnhill announced that Ladies' Night will be at Delhi Café, not Coral Gables, and John Kelly will provide entertainment, maybe on a dulcimer. Roger was promptly encouraged to remember and recognize an anniversary on the same date.

Don Tillitson reminded us of MS Walk and Walk America March of Dimes.

John Hosford reminded us of the two hamfests (Marshall and Toledo/Maumee) in March.

Event Announcements

- MS Walk will be April 23rd and will start at Potters Park and use the River Walk.
- Walk America March of Dimes will be April 29th and follow the same course.
- MS 150 Bike-a-thon will be July 15th
- Run with the MSU Basketball Girls will be September 10th
- Science Fair at Rayla School in Haslett will be April 21st
- Skywarn training will be April 8th at LCC's Dart Auditorium 11 a.m. to 4 p.m.
- Marshall and Toledo/Maumee Hamfests will be in March.
- Ladies' Night will be May 6th at Delhi Café.

Meeting was adjourned at 7:44 p.m. We then enjoyed a presentation on Internet Radio Linking Project by Jeff Frank (N8HEE).

Ham Classes put on jointly by the M.S.U.A.R.C. and the C.M.A.R.C. were successful again this year. The March 11, 2006 exam session was full. We now have 13 new Techs, a new General as well as a new Extra and 3 candidates also passed their code test element. Special thanks to all the VE team for their efforts, and congrats to all the new HAMS !



Picture of VE Team: Dennis Boone KB8ZQZ, Michael Shanblatt K8MAS, Larry Nordeen N8VEN, and Joe Denomme N8VYS.

April Schedule of Events

- 4/8 Milford Hamfest - <http://www.qsl.net/w8ydk/>
- 4/8 Skywarn weather class @LCC Dart Auditorium
- 4/21 Science Fair @ Rayla School in Haslett
- 4/23 MS Walk @ Potter's Park
- 4/29 March of Dimes walk @ Riverfront Park

Birthdays

- 4/7 Dick McGuire-KI8C
- 4/10 Donna Cote wife of WD8NYW
- 4/27 Eleanor Skutt wife of W8FSZ
- 4/29 Don Cote-KD8BD

Club Officers and Contact Information for 2006

President	John Hosford	KC8QZB	jhosford@acd.net
Vice Pres.	Roger Barnhill	AB8RX	AB8RX@aol.com
Secretary	Dick McGuire	KI8C	dickki8c@juno.com
Treasure	Don Devendorf	W8EGI	No E-mail
Director	Jane Law	KC8FSK	lawj@michigan.gov
Director	Ron Harger	WD8BCS	rharger@cablespeed.com
Under 22	Jordon Mulder	KC8QYU	jordonm@sbcglobal.net

Anniversaries

- 4/14 Scott Rowe-AB8VN & wife

Breakfast groups

1. Rod's Breakfast Bunch Each Friday - Starts about 8:00 - 8:30 AM
location: Bob Evans Restaurant - DeWitt - north of I-69 at 13101 S. US 27 145.390 Talk in.
2. QCWA – Last Saturday of every month – at 8:00 AM - Location: Korner Kitchen @ Mt. Hope and Pennsylvania St.
3. 539er's – Every Saturday – 8:00 AM – Location: Nic's on Logan St/MLK

W8PLP

In a former article it was mentioned how the Red Cross got the call W8PLP. Hope this tells you how this happened. A group of fellows were visiting and from the discussion it was decided that we would form a group and get a small van and set it up as a mobile amateur radio communications vehicle that we could move you a disaster area and furnish communications. A step van was purchased and converted to two operating positions. Equipment was bought and installed. We decided to get the call W8PLP for the group. Mrs. Ziegenbier was contacted and she agreed and wrote a letter as needed to get the call for the group. W8FSZ was the trustee for the call. Due to unexpected expenses the group disbanded. It was felt the call should stay in the area. As trustee I contacted ARRL and explained what we were trying to do to transfer the call to the Red Cross with their permission. ARRL told me what steps to take to get this done without a hitch with the FCC. These steps were taken and the call was transferred to the Red Cross. This procedure took several months doing one step at a time. This is why the call W8PLP is issued to the Red Cross. The call W8MAA had already been issued to CMARC for several years before the Call W8PLP was issued to the Red Cross. W8FSZ

Regular Announcements

Lansing VE testing is held the 2nd Saturday of the odd months at the Red Cross building. Registration begins at 9:30 am and testing starts at 10:00 am. The address is 1800 E. Grand River Lansing. The next date is?

March 11 th	May 20 th	July 8 th
September 9 th	November 11 th	January 13 th

Charlotte has their VE testing on the 2nd Saturday of even months at the Eaton County Sheriff's Department, Charlotte MI at 12:00 noon. The next Registration date is?

February 11 th	April 8th	June 10 th
August 12 th	October 14 th	December 9 th

The Delta Township Auxiliary Communications Service meetings are held on the 1st Monday of each month at Fire Station Number One on Saginaw and Canal Rd. at 7:00 pm. The Next meeting is?

March 6 th	April 3rd	May 1 st
June 5 th	July 10 th	August 7 th
September 11 th	October 2 nd	November 6 th
December 4 th	January 8 ^{th, 2007}	February 5 ^{th, 2007}

The Lansing Civil Defense Repeater Association, LCDRA, meeting is held quarterly on the Third Thursday at Fire Station Number 8 on Marshall and Saginaw St in Lansing at 7:00 pm. The next meeting will be?

April 21st	July 21 st	October 20 th	January 19 ^{th 2007}	April 20 ^{th 2007}
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ARPSC meets the 3rd Monday of every month @ 7:00 pm.

Odd months they meet @ Fire Station 8 on Marshall and Grand River

Even months they meet @ Ingham County Sheriff's Department 630 N. Cedar St Mason MI

Next dates...

Odd-

March 20 th	May 15 th	July 17 th	September 18 th	November 20 th	January 15 ^{th 2007}
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Even-

April 17th	June 19 th	August 21 st	October 16 th	December 18 th	February 19 ^{th 2007}
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Nets :

Sunday-147.080 @ 8 pm. No pl tone. Eaton County Amateur Radio net.
Monday-443.625 @ 9 pm. PI tone 100. Traders net.
Tuesday-443.625 @ 9 pm. PI tone 100. Michigan IRLP net.
Wednesday-443.625 @ 9 pm. PI tone 100. Canadian IRLP net.
Friday-443.625 @ 9 pm. PI tone 100. International IRLP net. (New net)

Continued on page 8....

The central Michigan six-meter fun net is held every Sunday evening @ 9 pm on 52.525 MHz.

The CMARC information and fun net is held every Sunday evening @ 8:30 pm on the 145.390 repeater 100Hz. PL.

The Eaton County, ECARC net is held every Sunday evening @ 8 pm on the 147.080 repeater. 103.5 Hz. PL

Tuesday evenings @ 8 pm the QCWA- Quarter Century Wireless Association holds it's net on the 146.700 repeater, 100Hz. PL You do not need to be a member. All check-ins are welcomed.

Thursday evenings @ 7 pm the CCARA – Clinton County Amateur Radio Association holds their net on the N8ZMT repeater 145.13 (94.8 PL) and 444.850 (141.3 PL) and 146.86 (107.2 PL). You can also use 147.48 simplex.

Please support these area nets, their survival depends on you!!!

Member of the Month by Roger Barnhill

Greetings everyone!

After some thought and discussion it has been decided that there will be a monthly article in the Scope honoring individuals in the club for their efforts and contributions.

This "Member of the Month" column begins this month with Don De Feyter, kc8cy.

Don De Feyter, kc8cy, lives in Bath with his wife, JoAnn. Don is a life member of CMARC and has been a member since the 70's. He has held several positions and been involved in many activities during his many years as a member. Among those are having been a club director and working with others in repairing of the club station antennas. In addition Don is the club awards manager, and an ARRL awards certified QSL card(s) checker. Also, he and his wife were instrumental in past years with getting the hamfair up and running by performing many tasks, such as helping with organization and setup, as well as handling table rentals, etc. Don has been, and continues to be, a valuable club member, and hopefully will be for a long time to come. Many thanks Don, for all you do!

Hi everyone,

I'm going to take over the Ladies night dinner, so anyone wishing to come have dinner with us RSVP no later than April 15th to DeAnna at 1-517-505-1983, or by e-mail at KD8BDI@aol.com. Ladies Night has been set for May 6th 2006 at Delhi Café on Willoughby Rd. Dinner at 6:00 pm. We will order off the menu so come have a great dinner with us and enjoy some wonderful fellowship. We would like to see a record turn out this year. Everyone is welcome.

Attention all Lady Hams: **The Auto State Young Ladies'** are looking for you to join their group. The TASYLs group was started a little over 40 years ago. Last October we had our 40th anniversary dinner. August 19th is our annual picnic in Lake Odessa. Our annual meetings are held in Marshall at the hamfest. Dues are \$5.00 a year for members. Check out our website at www.tasyl.net. Any questions Contact Jane Law at lawj@michigan.gov.

New Ham Help:

Are you a ham that just doesn't know how to "ham it up"? Here are some suggestions that might help you out on VHF and UHF repeaters:

- Do not call "CQ" on the FM repeaters.
- Listen to your local repeaters for a while to see what the protocol is for their use.
- Say "(your call) monitoring" or "(your call) listening" only once. More then that gets annoying to listeners.
- Speak clearly and not too fast.
- Make sure that you or the people you call watch how you speak on the autopatch.
- ID every 10 minutes and at the end of every conversation.
- ID at the beginning and end of every autopatch and other activities.
- Only break into other conversations when you have to. When you do just say your call sign, not "Break".
- Don't use "codes" on the FM that are used on CW.
- Don't use "10" codes at all.
- Don't say "over" on FM.
- Don't kerchunk the repeater a lot of times and ID when you do.
- Don't play songs over the air using your Yaesu portable's musical keypad.
- Don't link two repeaters together using your crossband radio.
- Don't over modulate (talking too loud)
- Don't send MCW (This is sending Morse Code with a tone on AM or FM) using your DTMF pad (Dual Tone Multi Frequency aka Touchtone)

Joke of the month: Two antennas met on a roof, and decided to get married.
The wedding wasn't much, but the reception was outstanding!!!

Nominations invited for 2006 Young Ham of the Year Award (Mar 21, 2006) -- Nominations are now being accepted for the 2006 *Amateur Radio Newsline* Young Ham of the Year (YHOTY) Award. The award honors a licensee 18 years old or younger who has used ham radio to significantly contribute to the benefit of the Amateur Radio Service, to the state of the communications art, to the community or the nation. This year, nominations are being accepted for Amateur Radio operators living in the US and in the 10 provinces of Canada. Nominations and supporting materials must be submitted before May 30, 2006, on an official application. To obtain a nomination form, send a self-addressed, stamped envelope to 2006 Young Ham of the Year Award, c/o Newsline, 28197 Robin Ave, Santa Clarita, CA 91350, or [download the form](#) from the Internet. Nominations may be made online using a [Web form](#), but supporting materials must be submitted separately. Presentation of the 2006 YHOTY Award will take place in August at the Huntsville Hamfest in Alabama. There's more information on the [YHOTY](#) Web site.



Advanced Storm Spotter Training

with The National Weather Service

Lansing Community College
Dart Auditorium
500 Capitol, Lansing, MI

**Michigan Earthquakes
Kazuya “Kaz” Fujita**

<http://www.msu.edu/~fujita/>

Known as Mr. Earthquake

Son of Tetsuya “Ted” Fujita Creator of the Tornado “F” Scale

<http://www.msu.edu/~fujita/tornado/tfujita/>

**How to Recognize and Report It
Jim Wades, PEM WB8SIW**

<http://www.qrz.com/callsign/wb8siw>

April 8, 2006

10:00 am – 3:00 pm

Pre-register online at

www.thedataworks.net/dtacs/skywarn.asp

No Admission Charge

(Please do not register unless you plan to attend - attendees must complete the entire class)

[KAZUYA FUJITA](#) Professor, Michigan State University Northwestern University, '73, B.A., '76, M.S., '79, Ph.D.

Dr. Fujita, is the son of. [Tetsuya Theodore Fujita](#), known as Mr. Tornado, who died in 1998. This link will provide more on [Ted Kaz](#), who might very well be called "Mr. Earhtquake", has taught for the Department of Geological Sciences at Michigan State since 1979 and has been collaborating in tectonics research in Siberia with scientists from the Geophysical Institute since 1990. His research interests include the tectonics of plate margins, especially in Northeast Asia and the Arctic. Dr. Fujita received an Excellence in Teaching Award sponsored by the Amoco Foundation in 1992. He is currently an editorial board member for Tectonophysics and Journal of Physics of the Earth, and a member of the IRIS Standing Committee for the Global Seismograph Network.

<http://www.gi.alaska.edu/TSRG/People/Fujita/>

[James Wades](#) is a certified Professional Emergency Manager and works closely with various ARES and RACES programs on emergency preparedness issues.

Jim, WB8SIW, was originally licensed as WN8SIW in the early 1970s while living in Farmington, Michigan. He has been active on-air periodically over the past few decades.

Jim is primarily active on CW and enjoys casual conversations and occasionally chasing DX. He serves as Manager of the Michigan Net, QMN and the National Radio Emergency Net, both of which are CW traffic/emergency nets.

While he operates primarily CW, he does occasionally enjoy phone operations. Jim has also been active in the construction of a digital packet radio network, and has used various digital modes including packet, PACTOR, RTTY, etc. Jim also enjoys operating QRP, particularly when combined with camping, hiking, canoeing, hunting, and fishing.

Jim is a member of the Morse Telegraph Club, an association of land-line telegraph operators. He also enjoys using the American Morse Code on land-line (wire) circuits and regularly demonstrates Morse Telegraphy, particularly in conjunction with operations of the Pere Marquette 1225 Steam Locomotive during rail passenger excursions here in Michigan. Jim also maintains the telegraph office and MTC national telegraph hub at the Steam Railroad Institute at Owosso, Michigan.



Central Michigan Amateur Radio Club

Please print and complete the form below. Make check or money order payable to CMARC. Mail completed membership form and the membership fee to:

John Ingraham / NG8L, Membership Chairman
 2807 Greenbriar Avenue
 Lansing, MI 48912

NAME: _____ Call: _____
 City: _____ St: _____ Zip: _____
 Phone: () _____ Lic. Class: _____

ARRL Member?	Yes	No	(Circle Answers)
Email Scope?	Yes	No	

Email Address: _____
 Birthday Month: _____ Day: _____
 Wedding Anniversary: _____

Full Membership: \$10.00 / year
 Associate Member: 5.00 / year
 Membership dues are from January to December.

As a licensed Amateur, you can sign up today as a Full member of CMARC. This grants you voting rights and an annual subscription to SCOPE, the club newsletter. An Associate member does not have voting rights but does receive an annual subscription to the SCOPE.

Lansing Civil Defense Repeater Association



**Lansing Civil Defense
 Repeater Association**

Please print and complete the form below. Make check or money order payable to L.C.D.R.A.. Mail completed membership form and the membership fee to:

L.C.D.R.A.
 PO Box 26281
 Lansing, MI 48909-6281

NAME: _____ Call: _____
 City: _____ St: _____ Zip: _____
 Phone: () _____ Lic. Class: _____

Birthday Month: _____ Day: _____

Full Membership: \$15.00 / year
 2nd Membership of same family: \$ 7.50 / year
 Membership dues are from January to December.

Use of the repeaters does not REQUIRE membership, but your support is GREATLY appreciated.