



W8LAP/r
 146.620 - 100Hz
 442.750 + Open
www.w8lap.com

WAVEGUIDE

Lapeer County Amateur Radio Association

May	Published Monthly by the Lapeer County Amateur Radio Association	2007
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*The next regular meeting will be held on
 Tuesday, May 8 —7:30 p.m.
 at the Lapeer County Central Dispatch Center (911)
 2332 W. Genesee Street in the basement.*

The Prez Sez

Good to be back for a meeting, also it was good to hear abt the up grades! Hope to see the new General class ticket holders at the Cadillac swap buying the necessary goodies to get on the low bands!! Even though we have a bunch of new members lets not forget some of our previous club members. If you know of any, ask them to come to a meeting . They are always welcome at any club function! I know gas prices are a real pain and I have cut back, but maybe we could share a ride with some of our

former club members. If you haven't put your name on s time slot give TOM, KD8EBY a shout on the repeater during the day! Tom is usually listening! Our OP CARE work on holiday weekends are the main source of funding for the club!! And those of you who haven't made or taken the time to help out are missing out on one of the more interesting facets of amateur radio. That being PUBLIC SERVICE. And you meet a lot of nice people!
 73 Bob W8RAE

The Veep Sez:

I would like to take a moment to publicly say "Thanks!" to the VE's for taking time out of their busy schedule to conduct a special test section. There were 4 people that tested and passed (2 new Techs and 2 up grades to General)

Thanks again to Al- N8NPR, Bill- KD8VP, Chuck- WA8UCS, Gary- KA8RGT and Bob- N8NE for being active in our club.

Test sections are scheduled on the 5th Saturday of each month, and will be held in the basement of the 911 center at 9am. The next up coming section is scheduled June 30th. Keep an ear to the repeater for further announcements.

73 to All Chris. KC8TWL/AG

The Treas Sez:

Good day to everyone, it is a beautiful spring day as I write this. I have been out doing all sort of outdoor spring stuff. Digging out antennas to string up, looking at whether I should tip over the tower and maintain the beam, wondering what I should use for Field Day. But enough of that - I have to give you a treasury report.

So far in the month of April we have had the normal electric and phone bills, the electric is going down as the need for heat in the repeater shack goes down, and the phone bill stays about the same all the time. We had a minor expense for supplies for the Skywarn class and little else this month.

Remember everyone that operation care is coming up soon, and we need volunteers. I believe that an attempt is being made to have a sign-up sheet on the

www.w8lap.com web site, and you can almost always contact Tom Oliver KD8EBY on the repeater for sign up.

Operation Care is a very big contributor to our treasury every year and we need that to keep our dues as low as we have them. Keep up the good work.

I might also add that I was contacted by Elmer's Ham Shack in Grayling, MI (maybe Gaylord) about our swap and shop. It seems that ComDac has handed over their swap list to them and they are going to try to take ComDac's place at all the swaps. As of yet I have not received their application but they told me they would be there. I for one am going to miss ComDac, but maybe Elmer's Ham Shack will be better.

73 for now, see you at the meeting.
 Bill Miller KD8VP

The Trustee Sez:

Well I still haven't met with Perry Gwinn about the Cat 1000B repeater controller. I have to admit that I am procrastinating, the repeater is working fine, I have learned a few tricks about programming it, and lastly you people don't use it enough for me to justify all the expense. If your not going to use it why should we as a club bother upgrading the controller. If you have an opinion on this please let's discuss it. Convince me that we should!

Hank K8DD and Doug KC8ZCF have been at work putting a few new items in the shack. With some of the

The EC Sez:

As you read this, another county disaster exercise has come and gone. A great big thank-you goes out to all who were able to come out and play. We had operators from not only Lapeer, but St. Clair, Tuscola and Genesee Counties. This was one of our objectives that were fulfilled. Unlike past years, we were actually assigned positions, with a request for a ham operator at the hospital. Unfortunately, the hospital got busy and couldn't play any longer.

With the help of Bob (K8WMW) from St Clair County, Hank was able to get 2 of the packet computers talking to each other and the W8LAP BBS at the EOC. Unfortunately, due to time constraints, we weren't able to set them up for the exercise. But, we were able to utilize the UHF repeater for the event. Guess what, it still works.

Right after the exercise, was the March of Dimes walk in Lapeer. Despite being our first year of working this walk and just a tad bit late start, the organizer of the walk has requested our services for next year. I'm told she was very impressed with what we did. Just like the exercise, it was a group commitment with help from Genesee and St. Clair Counties.

At last months EC meeting in Sandusky, the subject of mutual aid came up. Greg (W8OGJ), District 3 EC, wants every county to assemble a team of 5 people who are willing to be part of an advance team. This means if a county needs help in a hurry, the advance team from a neighboring county can be called out and respond in a relatively short period of time. More information will filter down in the coming months, but in the mean time, if anyone is interested in filling a position, please let me know.

New Hams and ARES/RACES Members:

Congratulations to the following new ARES/RACES Members:

- 1) David (KD8FVO)
- 2) Debra Keating (KD8GAV)

Emergency preparedness grant money they have purchase and installed a 220 MHz digipeater on our spare tri-band antenna. This digipeater as I understand it will allow Lapeer and Tuscola Counties to better get into the National Weather Service in White Lake during a weather event. I heard something at the meeting that there will be a two meter digipeater also, I am not sure how they are going to do that. Maybe some 2 meter, 220 cavities.

That's all for now, let me know what you think, after all it is your repeater isn't it.

73 Bill Miller KD8VP

Upcoming events:

- May 2, 2007: St. Clair County RACES/ARES Net: A new net in town. Operating on the 147.300 (PHART) repeater in Avoca, SCC RACES/ARES is beginning a training net that is scheduled to run on the 1st and 3rd Wednesday evening at 8:30 P.M. The purpose of this net is for training and discussing RACES/ARES/Public Service ideas.
- May 16, 2007: Genesee County Disaster Exercise. 8:00 A.M. at Bishop Airport. Contact me for more information.
- May 19, 2007: FEMA IS-700 Class. 9:00 AM at the EOC. Contact Sheri, KD8AWV if you are going to attend.
- June 23 and 24, 2007: Field Day!
- July 28, 2007: The Turri in Genesee County
- August 4, 2007: Blueberry Parade and 5K race in Imlay City. More information to come
- August 25, 2007: The Crim Festival of Races, Genesee County

Net Control Rotation for May and June:

I'll try not to goof up the rotation this month!

May 7, 2007: John (KD8AWU)

May 14, 2007: Doug (KC8ZCF)

May 21, 2007: Bob (W8RAE)

May 28, 2007 **Memorial Day**: Charlie (KC8JBK)

June 4, 2007: Bob (W8RAE)

June 11, 2007: Doug (KC8ZCF)

June 18, 2007: John (KD8AWU)

June 25, 2007: Charlie (KC8JBK)

This schedule can be changed as others are added to the rotation. We are still looking for a few good people who want to join the Net Control rotation. If you're interested, give me a call, send me an email or call me on the repeater. If you volunteer, I'll find you a spot!

Well, that's it from here. Catch ya down the page!

73 everyone,

Doug Jr., KC8ZCF

From the mailbox:

{The ARRL claims that there were "widespread misconceptions" by the Amateur population, but there was never a good description of what the Petition for Rule Making would entail for the Amateur bands. Regulation by bandwidth, properly done is fine, but with RM-11306's misconceptions or poor explanation – either way - it is good that it was withdrawn. –*editor*}

==>ARRL WITHDRAWS "REGULATION BY BANDWIDTH" PETITION, PLANS TO REFILE

The ARRL has withdrawn its controversial November 2005 Petition for Rule Making (RM-11306)

<<http://www.arrl.org/announce/regulatory/rm-11306/RM-11306-asFiled.pdf>>

calling on the FCC to establish a regulatory regime to segment bands by necessary bandwidth rather than by emission mode. The League cited "widespread misconceptions" surrounding the petition as a primary reason for deciding to remove it from FCC consideration. The ARRL left open the option of refiling the same or a similar petition in the future, however.

"The withdrawal of the petition will permit a full discussion and consideration of options at the July 2007 meeting of the ARRL Board of Directors," said ARRL President Joel Harrison, W5ZN. "The petition then can be recast with a better explanation of its scope and the reasons for the proposed changes."

The ARRL Executive Committee recommended withdrawing the petition when it met by teleconference April 10. The ARRL Board of Directors subsequently okayed the EC's recommendation by mail vote.

The ARRL Board continues to support the concept of regulation by maximum emission bandwidth as a way to facilitate the eventual transition from analog to digital communication modes. ARRL CEO David Sumner, K1ZZ, emphasized that the League seeks a regulatory framework that's "fully compatible with both narrowband and wideband analog emission modes now in common use" on the ham bands.

Sumner expressed the hope that a refiled regulation-by-bandwidth petition would "address -- and hopefully avoid -- widespread misconceptions" about RM-11306, either in its original form or as amended earlier this year. Irrespective of the present controversy over the petition's proposals, he pointed out, the League repeatedly sought comment on its regulation-by-bandwidth concepts before filing its petition with the FCC.

The ARRL first sounded out the Amateur Radio community regarding regulation-by-bandwidth three years ago. A September 2004 "It Seems to Us .

.. " QST editorial "Regulation by Bandwidth" followed, explaining the concept and its rationale. Hundreds of subsequent comments from ARRL members and others "helped to bring the issues on which the amateur community was not in agreement into focus."

That led to a second editorial, "Narrowing the Bandwidth Issues," in April 2005 QST, soliciting additional comments on the plan's most contentious points. That drew hundreds more constructive and critical comments, and the ARRL took all input into account in developing a draft petition for the Board's consideration. The ARRL filed the petition in

November 2005, and the FCC put it on public notice in January 2006.

In all, the amateur community has posted upward of 1000 comments on RM-11306. While some comments appropriately reflected concerns about the proposed substantial shift in regulatory philosophy, others tended to reflect a lack of understanding of existing rules, of the ARRL's proposals, or both. Some expressed the view that the League was attempting to promote or legitimize particular data modes, such as Winlink.

"The petition, in fact, had nothing specifically to do with Winlink or any other particular data mode," Sumner maintains. "It was, rather, a means of facilitating data experimentation, which is somewhat stifled under the current rules" that apply almost exclusively to analog modes.

A major distraction in the public debate related to automatically controlled data stations, and assertions that adopting the League's petition would permit such facilities to run roughshod over CW and other traditional modes. Sumner says automatic control is not even an essential component of the League's regulation-by-bandwidth proposals, which would leave in place restrictions on automatically controlled stations.

Revisions to RM-11306 the ARRL filed earlier this year to accommodate changes in Part 97 that occurred since November 2005 only seemed to generate additional controversy and lead to further confusion, Sumner concedes. Those revisions would have largely confined regulation by bandwidth to the VHF and UHF bands.

One misunderstanding resulting from an unintentional editorial error in the League's revisions gave rise to concerns that the ARRL's proposed 3 kHz bandwidth limitation for data emissions represented an expansion of the currently permitted maximum bandwidth. Quite the contrary, Sumner explains.

"In fact, 3 kHz bandwidth would have been a new limitation, because the present baud rate limit applies to individual carriers," he said. "Therefore, for emissions such as OFDM [orthogonal frequency-division multiplexing], which use multiple carriers, there is no effective bandwidth limit in the HF bands now." Sumner notes that under current rules, a single OFDM signal could conceivably -- and legally -- occupy an entire HF band.

Harrison assured that the League intends to offer a "far better explanation" of the consequences of regulation by bandwidth before filing a new petition proposing that regulatory concept, "so that the misunderstandings that occurred with respect to RM-11306 do not happen again."

[from The ARRL Letter, Vol 26, No 17 (Apr 27, 2007)]

Emergency Preparedness Grant Equipment

Over the past year the Lapeer County ARES / RACES organization received a grant for a communications system for the 220 MHz band. It is primarily packet radio although it can be used on FM voice.

The basic system will operate under Winlink 2000. What this does is integrate (from a user level) Outlook Express email program on a laptop with a Packet Radio Terminal Node Controller (TNC) and a radio to send and receive email over 1200 or 9600 baud packet radio.

How does it do this? From a laptop to the internet via Amateur Radio? The short answer is – Very easy, and yes – from a laptop to the internet via 223.400 MHz packet radio!

The laptop operating system (Windows XP Home) comes with Outlook Express. We added three programs – SV2AGW Packet Engine, Winlink 2000's PacLink (Packet Link) and Post Office to the remote user laptops and SV2AGW Packet Engine and Winlink 2000 TelPac (TelnetPacket) to the gateway laptop.

First we have the remote user who will create an email in Outlook Express. When the *Send* is clicked it will send the email (with attachments) to the Winlink Post Office on the laptop. Every now and then (this is a programmable "every now and then") the Winlink 2000 PacLink, using the Packet Engine, will check with a gateway station to send that email.

Next there is the gateway station. This station has a laptop running Winlink 2000 TelPac and SV2AGW Packet

Engine. The Packet Engine will allow the remote user's station to connect, receive the email via the Packet half of TelPac. Then using the telnet half it will send the email on the internet to winlink.org. During the time that the remote user is connected to the gateway it will also check for any email from winlink.org.

So, for example, let's say that there is a situation where there is a train derailment in the county. An operator takes a Pelican case with a laptop, radio, power supply or batteries, TNC, and antenna with a mast and coax. And a digital camera. They take a picture in fairly low resolution and transfer it to the laptop. Then they send an email to the EOC (of course they have already set up the station!) and attach the picture. It will take a few minutes to transfer the email with picture to the gateway and send it to the internet. Minutes later the mail bell at the EOC will ring and the picture, or pictures will be there! If there was a remote user station set up at a shelter in the case of evacuations, instead of a picture a spreadsheet could be sent to the EOC with the list of the persons in the shelter. This would be much faster and less prone to errors than sending it via FM voice. In both cases, pictures or spreadsheets, we have portable printers for the remote user stations so that the emails, pictures and / or spreadsheets can be printed and delivered to the proper personnel at the ICS or the EOC or the ARC or the FEMA!

This is a brief overview of what the Winlink 2000 system can do for us in an emergency. If it is a situation where email is not needed, then we can use plain old packet using SV2AGW's Packet Engine and Terminal programs.

From "WEAVER'S WORDS"

words from Jim Weaver K8JE, ARRL Division Director

++ Division Gathering Spot at Hamvention(r)

Most of you know there will be another ARRL Expo at the Dayton Hamvention(r) this year. One feature of the Expo will be a Great Lakes Division come-and-visit booth.

Division members, Division appointees, Section Managers and Section appointees are invited to "come and sit a spell" or stand around and chat with each other.

It'll be a good time to get to know each other as well as to

ask questions and offer suggestions.

While at the Division booth, feel free to check around the other booths at the Expo. You just might find President Harrison, W5ZN, CEO Sumner, K1ZZ and a few others in the area would like to meet you and talk.

Check the schedule of ARRL forums in the program book.

Upcoming Swaps...

May 5—**Cadillac**—AR & Computer Swap, Cadillac Jr. HS, 500 Chestnut St., 8 a.m. till??? T.I. 146.980 Info: nu8l@arrl.net or 231-876-1485

May 18, 19, 20 - **Dayton**—Hamvention

June 2—**Grand Rapids**—I.R.A. Annual Hamfestival
Info: www.w8hvg.org

June 3—**Chelsea** - 29th Annual Chelsea Swap.
Info: www.wd8iel.net

June 16—**Midland**— Midland Hamfest. Info: www.qsl.net/w8kea

Be Radio-Active
***** Participate *****
Get on the air!

June 17—**Monroe**— Monroe Hamfest. Info: www.mcrca.org/hamfest.htm

July 14—**Petoskey**— Straits Area Swap & Shop. Info: kc8nvi@glccomputers.com

August 19—**Lapeer**—8th Annual Ham & Computer Swap

Volunteer Exam Session:

The next ARRL Volunteer Exam (VE) session will be **May 12, 2007** at 10:00 a.m. in the 2nd floor meeting room at the Port Huron Branch of the St. Clair County Library, 210 McMorran Blvd, Port Huron, MI.

Pre-registration is now required for the Volunteer Examinations.

Bring picture ID, the original and a copy of your present license and the original of any Certificate of Successful Completion (CSC) you may hold. The current fee is \$14.00. For further information call Bob Herbert, K8WMW, at 982-1561

This year we will be sending the schedule to area clubs, school districts and posting at the Radio Shacks.

2007 sessions will be:

May 12

June 10

July 14

August 11

September 8

October 13

November 10

December 8

For further information call Bob Herbert, K8WMW, at 982-1561

Lapeer County Amateur Radio Association

P.O. Box 12

Hadley, MI 48440-0012

Officers

President, Bob Erskine, W8RAE.....248-628-3401

Secretary, Jim Mazzola, KC8YMF.....810-796-2610

Vice-Pres., Chris Azelton, KC8TWL..810-245-0073

Treasurer, Bill Miller, KD8VP.....810-797-5329

Committees & Appointees.

Club Founder.....Hollis Hayes, W8ACD

Club Historian.....Bill Hetchler, KC8SHI

Skywarn Coordinator.....Pete Headrick KB8RSG

Field Day Chairman.....Bill Miller, KD8VP

Two Meter Net Mgr.....Charlie Whipp, KC8JBK

Public Information Officer.....**It could be you!**

Club Call TrusteeW8LAP.....Bill Miller, KD8VP

VE Coordinator.....Al Wilson, N8NPR

Swap & Shop Chairperson.....Bill Miller, KD8VP

Meeting Refreshments.....Bill Miller, KD8VP

Newsletter Editor.....Hank Kohl, K8DD

ARES Repeater Nets

Monday at 9:00 PM on 146.620-

Thursday at 9:00 PM on 442.750+

Mon—Sat at 9:30 PM on 147.300+

Meetings

LCARA meetings are held on the second Tuesday of each month in the Lapeer County Central Dispatch Center (911), 2332 W. Genesee St, Lapeer MI at 7:30 p.m. local time.

Board of Directors' monthly meetings are held on the first Tuesday of each month at Tim Horton's at 7:30PM (Check on the W8LAP repeaters).

Newsletter

Items for the newsletter may be called to the Editor at 810-721-0708, sent by Mail (Box 88, Attica, MI 48412), or as an ASCII or Word to k8dd@arrl.net The deadline for submissions is the 20th of each month.

For Sale For Sale For Sale For Sale:

I want to buy your old ham/electronic/tube gear. I'm particularly looking for the Heathkit Mohawk that I built and sold to Dave Burch four decades ago.

Contact Mike, AA8K, at: stepsisters@comcast.net or 810-987-8873

For Sale

HW-8 Handbook—covers HW-7, 8 & 9 \$15

COM port boards, ISA, 2 ports \$3.00 ea

100' Rohn 45 tower with antennas, house, large garage, dipoles, vertical & wire antennas. Will not split. \$negotiable.

From the estate of N8CQA:

Cushcraft A4S – complete - \$150

Central Electronics 10A \$130

Central Electronics 10B \$130

Central Electronics 20A \$130

Two VFO's for above \$75 ea

WRL Globe 755 VFO \$75

Drake 2B & 2BQ – Clean - \$250

Kenwood TS-830 – receives, but no transmit – Make offer!

Heathkit GC-1 General Coverage portable RX with built in whip antenna...works (RARE!) \$100

Hallicrafters S-38 RX, needs work, as is (not original knobs) \$50

Norcal 40A 40m QRP Transceiver, works fine, \$120

All offers will be listened to!

Contact Hank K8DD at k8dd@k8dd.com or 810-721-0708

**Be Radio-Active
Participate**

Upcoming DX

And now One way to find where the DX is operating!

Dx Packet Cluster

The **WA8DX** Spider Packet Cluster node is available on **144.970**. At present **WA8DX** is receiving info via K8SMC in Jackson or N8NM in Waterford.

This is a tool you can use to build your DXCC total, see where people are working stations on both HF and VHF, and even pass messages.

Use your TNC to connect in the command mode and use **C WA8DX** as the command. Once connected you will get a welcome screen that asks for info. You should start to see DX spots right away.

Although you can stay connected indefinitely, if you decide to disconnect, type **b** or **bye** and you will be logged out.

You can view an online version of a users manual at: www.wd1l.net/DXSpider/usermanual_en.html

Remember...DX Is!

N2CQ QRP CONTEST CALENDAR

Adventure Radio Spartan Sprint (CW) ... QRP Contest!

May 8, 0100z to 0300z (First Monday 9 PM EDT)

Rules: <http://www.arsqrp.com/>

Ten-Ten International Spring Contest (Dig/CW)...QRP Category

May 5, 0001z to May 6, 2359z

Rules: <http://www.ten-ten.org/calendar.html>

7th Call Area QSO Party (Ph/CW) ... QRP Category

May 5, 1300z to May 6, 0700z

Rules: <http://www.7qp.org>

Indiana QSO Party (All) ... QRP Category

May 5, 1600z to May 6, 0400z

Rules: <http://www.hdxcc.org/inqp/>

New England QSO Party (Phone/CW) ... QRP Category

May 5, 2000z to May 6, 0500z

May 6, 1300z to May 6, 2400z

Rules: <http://www.negp.org/>

VK/trans-Tasman Contests (80 M Ph) ... QRP Category

May 12, 0800z to 1400z

Rules: <http://home.iprimus.com.au/yktasman/RULES.HTM>

Mid-Atlantic QSO Party (CW/Dig/SSB/FM) ... QRP Category

May 12, 1600z to May 13, 0400z

Rules: <http://www.maqp.info/>

FISTS Spring Sprint (CW) ... QRP Category

May 12, 1700z to 2100z

Rules: <http://www.fists.org/sprints.html>

CQM International DX Contest (CW/SSB) ... QRP Category

May 12, 1200z to May 13, 1159z

Rules: <http://www.sk3bg.se/contest/cqmidxc.htm>

NAQCC Straight Key/Bug Sprint *** QRP CONTEST! ***

EDT: May 16, 8:30 PM to 10:30 PM

UTC: May 17, 0030z to 0230z

Rules: <http://www.arm-tek.net/~yoel/contests.html>

Dayton Hamvention (QRP Event - FDIM)

May 18-20

Info: <http://www.hamvention.org/>

US Counties QSO Party (SSB)

May 19, 0000z to May 20, 2359z

Rules: <http://marac.org/ssbqsoparty.htm>

HIS MAJESTY THE KING OF SPAIN CONTEST (CW)

May 19, 1200z to May 20, 1200z

Rules: <http://www.sk3bg.se/contest/kingofsp.htm>

EU PSK DX Contest ... Low Power (10W) Category

May 19, 1200z to May 20, 1200z

Rules: <http://www.eudx.srars.org/>

All America Contest (CW) ... QRP Category
May 19, 1500z to May 20, 2359z
Rules: <http://www.powerline.com.br/cwif/eng4.htm#regulamento>

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Baltic Contest (CW/SSB) (80 Meters)  
May 19, 2100z to May 20, 0200z  
Rules: [http://www.lrsf.lt/bcontest/english/rules\\_html.htm](http://www.lrsf.lt/bcontest/english/rules_html.htm)

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RUN FOR THE BACON (CW) *** QRP CONTEST ***
EDT: May 20, 9 PM to 11 PM
UTC: May 21, 0100z 0300z
Rules: <http://fpqrp.com>

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CQWW WPX Contest (CW) ... QRP Category  
May 26, 0000z to May 27, 2359z  
Rules: <http://www.cq-amateur-radio.com/awards.html>

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VK/trans-Tasman Contests (80 M CW) ... QRP Category
May 26, 0800z to 1300z
Rules: <http://home.iprimus.com.au/vktasman/RULES.HTM>

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QRP ARCI Hoot Owl Sprint (CW) ... QRP Contest!  
May 27, 2000 to 2400 LOCAL TIME  
Rules: <http://www.qrparci.org>

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Thanks to SM3CER, WA7BNM, N0AX(ARRL) and others
for assistance in compiling this calendar.

Please forward the contest info you sponsor
to N2CQ@ARRL.NET and we will post it and give it more publicity.
Anyone may use this "N2CQ QRP Contest Calendar" for your website,
newsletter, e-mail list or other media as you choose.
(Include a credit to the source of this material of course.)
72 de
Ken Newman - N2CQ
N2CQ@ARRL.NET

2006-2007 L.C.A.R.A. MEMBERSHIP APPLICATION

PLEASE PRINT:

CALL SIGN: _____ NAME: _____

ADDRESS: _____

CITY ,STATE, AND ZIP: _____

PHONE : _____ LICENSE CLASS: _____

SKYWARN NO.: _____ RACES NO: _____

ARES MEMBER YES__ NO__ E-MAIL ADD.: _____

ARE YOU AN A.R.R.L. MEMBER: YES__ NO__

L.C.A.R.A. MEMBERSHIP IS \$12.00 PER YEAR, RENEWABLE EACH YEAR ON **OCTOBER. 1ST.** FAMILY MEMBERSHIP \$20.00. ASSOCIATE MEMBERSHIP \$4.00. IF YOU WISH AN AUTODIAL NUMBER FOR THE REPEATER THERE IS AN ADDITIONAL \$3.00 CHARGE. Financing available.

Lapeer County Amateur Radio Association

P.O. Box 12

Hadley, MI 48440-0012