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LCARA WAVEGUIDE

**January**Published Monthly by The Lapeer County Amateur Radio Association **2006****The Prez Sez**

Bob Erskine, W8RAE

It was good to see everyone at the Christmas party. Everyone seemed to be enjoying themselves that I was tempted to hold off starting the dinner call.. But then again it could have been a talk of mutiny hi hi.. ..It was a good turn out the food was good and plentiful although I only had seconds on the dessert .. I don't know if anyone besides Jim W8NGO took some photos but I would hope that they would send them on to Hank for a future issue of the newsletter... We are getting snow as I write this and I hope that everyone who did some traveling on Christmas day had an safe and uneventful drive to and fro..

I checked into a couple of nets today and conditions were not to bad.. This was before the family showed up and well before the snow started.. Did anyone receive something for the shack for Christmas??? Me neither but there is always hope for the big find at Hazel park swap!!! Everyone have a safe New Years eve. And since we are officially into winter now be sure that your vehicle is well equipped to handle the hazards of the daily drive.

Till I see you at the first meeting of 2006 be radioactive.

73 Bob W8RAE

Upcoming Swap & Shops**Saturday January 14, 2006** Flushing Swap & Shop**Sunday, January 15, 2006** Hazel Park Amateur Radio Club 40th Annual Hamfest. Hazel Park High School, Hazel Park, MI. Talkin 146.640 + (100hz PL) DART Repeater. Www.qsl.net/W8HP**The Treas Sez**

Bill Miller, KD8VP

I hope that everyone had a good Christmas. The Club Christmas Party was a wonderful success, there were forty people in attendance and the grand prize (a power supply from Imlay City Radio Shack was won KG0ZN's son— Congratulations. Many thanks to Threse KC8PEZ for being Santa again this year. The food was great and plentiful, and I think everyone had a good time. I know I did.

The treasury has not had any more than normal expenses for the month of December. The electric bill was higher, but that was expected with the added expense of the repeater shack heater running.

I want to wish one and all a very Happy New Year in 2006 73 Bill KD8VP

The Trustee Sez

Bill Miller, KD8VP

Greetings to all, I hope that everyone had a great Christmas.

During the past month I have managed, thanks to KD8YX for finding the serial number for the repeater controller software, to buy the latest software to program the repeater. The cost to buy outright was \$59.00, but with the serial number I was able to get it for \$15.00. In the process Scm Bob threw in the latest programming manual on disk for free. It seems that Scm Inc. is in the process of coming out with a new controller, with all kinds of bells and whistles. It will be interesting to see what they have to offer.

After receiving the last electric bill I decided to put some weather stripping on the door to the repeater shack, I don't know if it will do much good keeping the heat in but any little thing should help. We are going to have to replace the door come spring, it is getting pretty dilapidated.

That's all for now I hope everyone has a great new year.

73 Bill KD8VP

***This month's Meeting is
Tuesday, January 10 —7:30 p.m.
At the Lapeer County Central
Dispatch Center (911) at 2332 W.
Genesee Street in the basement***

**Be Radio-Active
Participate**

Lapeer County Amateur Radio Association

P.O. Box 12
Hadley, MI 48440-0012

Officers

President, Bob Erskine, W8RAE.....248-628-3401
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Secretary, Jim Mazzola, KC8YMF.....810-796-2610
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Club Historian.....Bill Hetchler, KC8SHI
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Swap & Shop Chairperson.....Bill Miller, KD8VP
Field Day Chairman.....Bill Miller, KD8VP
Meeting Refreshments.....Bill Miller, KD8VP
Two Meter Net Mgr.....Charlie Whipp, KC8JBK
Newsletter Editor.....Hank Kohl, K8DD
Public Information Officer...Bill Hetchler, KC8SHI

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

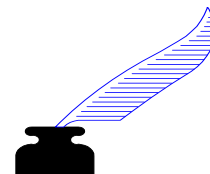
Items for the newsletter may be called to the Editor at 810-721-0708, sent by Mail (Box 88, Attica, MI 48412), or as an ASCII or Word to k8dd@arrl.net. The deadline for submissions is the 20th of each month.

LCARA Monthly Meeting Minutes

Lapeer County Central Dispatch Center (911).

There are no minutes for the December LCARA meeting due to the annual Christmas Party being held on the regular meeting night.

If you were not in attendance at the Christmas Party, you missed a good one!



Thinking about trading in your long call for something a little shorter?

AMATEUR RADIO VANITY CALL SIGN PROCESSING WILL RESUME JANUARY 4

The FCC has announced that routine processing of Amateur Radio vanity call sign applications will resume Wednesday, January 4, 2006. The Wireless Telecommunications Bureau (WTB) suspended vanity processing in September as an indirect result of its hurricane-related extensions of certain regulatory and filing deadlines. The Commission said licensees or applicants needing relief beyond the initial extension periods should follow the process for submitting waiver requests provided in 1.925 of the Commission's rules.

"The Bureau will consider additional relief related to the hurricanes on a case-by-case basis," the FCC said December 19 in a public notice.

Earlier this year, the FCC announced it would extend filing and regulatory deadlines for licensees in parts of Louisiana, Mississippi, Alabama, Texas and Florida directly affected by

hurricanes Katrina, Rita and Wilma. During the extension periods, the WTB temporarily suspended certain automated licensing functions. These included dismissing applications that are returned and not amended on a timely basis, changing the status of a call sign from active to expired if a license is not renewed within the two-year grace period for Amateur Radio licensees, and issuing vanity call signs.

In September, the FCC said it had to suspend routine vanity call sign processing because the extensions included the two-year grace period and could conceivably affect the vanity program.

From The ARRL Letter, Vol 24, No 50

Contributors to this newsletter:

Bob W8RAE Bill KD8VP

Your name and call should be here!

Support Amateur Radio

Join the Lapeer County Amateur Radio Association and the American Radio Relay League. Have your voice heard both locally and nationally.



Now here is something to think about!

From the ARES E-Letter for December 21, 2005

+ The View from Flagler County

Our little county is purchasing a new \$10 million 800 MHz trunking system for dispatching emergency personnel and maintaining communication with the state EOC in the event of a major disaster. I saw the news item, and immediately thought of the report we published in this newsletter a few months ago: "The 800 MHz and other trunked systems commonly used by local and state agencies were the first to go in the hard hit areas of Katrina. In many cases, we found police and fire units dispatching from a car or HT. Even after two weeks, we still had radio amateurs handling all of the EOC and public safety communications in a number of counties and parishes on the coast."

It occurred to me that Flagler's new system may offer county ARES operators continued job security.

Which way is North?

(You never know when you may need to know which way is up or North. Just think—you could be lost in downtown Lapeer and not know which way to go to get home!)

At the risk of invoking another Plastic Owl uproar, here is a great way to determine True North, even if you have no compass and are lost in the woods. All it takes is the sun...

- 1- Jab a double-pointed stick into the ground
- 2- Mark shadow of stick point on ground (with a pebble or twig)
- 3- Wait a while
- 4- Mark point shadow, again
- 5- Line between shadow marks is E-W

- 6- Construct perpendicular for N-S
- 7- For better accuracy use a longer stick and wait longer (Thanks, Russell W4NI)



From ARRL Contest Rate Sheet for December 28, 2005

+ WINLINK Page Added to ARRL Web site

ARRL Web site offers Winlink 2000 page: The ARRL now has a Web page <http://www.arrrl.org/tis/info/winlink.html> devoted to Winlink 2000 <http://www.winlink.org>, the software and hardware system that links Amateur Radio to the Internet and allows sending and receiving e-mail messages via Amateur Radio. The League's new Winlink 2000 resource page contains general information about Winlink 2000, including articles, reprints, links and other useful information. A worldwide radio digital messaging system, Winlink 2000 also offers position reporting, weather bulletins and graphics, and emergency communication capabilities. It's already being used extensively by radio amateurs in the sailing and cruising communities as well as by recreational vehicle travelers, missionaries, scientists and explorers. The ARRL Board of Directors in 2004 encouraged the deployment within the ARES of e-mail via Amateur Radio "as exemplified by Winlink 2000" to meet the needs of served agencies and others involved in providing disaster communications. Amateur Radio volunteers responding to help in the wake of Hurricane Katrina used Winlink 2000 with great success.

This would be good to look up and become familiar with because Winlink 2000 is coming to Lapeer County in the near future!

If you have an e-mail address and would like the Waveguide via e-mail, let Bill KD8VP (kd8vp@juno.com) and Hank K8DD (k8dd@arrrl.net) know and it will happen.

This can help save postage and printing for the club....

And the pictures will look better!

This space is where you could have submitted something. Tell us about:

- What DX did you work?
- What interesting QSO did you have recently?
- Did you try a different antenna? Did it work?
- Did another ham you know do something to qualify for "here's your sign"? (the stoopid sign—and we won't publish your call or name!)
- Rumors

Most any format is fine—Text file, Word file, hand written, typed or verbal over the phone. See page 2 for Newsletter contact information!



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Just North of I-69 on Van Dyke (M-53)
In the Farmer Jack Plaza

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Check with us for your wireless networking needs and High Speed internet!

This is your spot!

News reports, upgrades, achievements, rumors, humorous events, questions, sound off, what DX have you worked?, or any reports. Send anything you have to the editor (see page 2) in any form—handwritten, typed, ASCII file, email, disk, chipped in stone, or by packet radio (144.970 WA8DX—do a SEND K8DD).

Be RadioActive— Participate!

January 2006

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2 ARES Net 146.62 9 PM	3 LCARA Board Meeting	4	5 ARES Net 442.750 9 PM	6	7
8	9 ARES Net 146.62 9 PM	10 LCARA Meeting	11	12 ARES Net 442.750 9 PM	13	14 Flushing Swap
15 Hazel Park Swap	16 ARES Net 146.62 9 PM	17	18	19 ARES Net 442.750 9 PM	20	21
22	23 ARES Net 146.62 9 PM	24	25	26 ARES Net 442.750 9 PM	27	28
29	30 ARES Net 146.62 9 PM	31		ARES Net 442.750 9 PM		

LCARA 2005 Christmas Party



A trip to Saint Pierre and Miquelon CQ WW DX CW 2005

By Hank Kohl K8DD

Stan Arnett, AC8W, and I are always talking about going “somewhere”. That means somewhere outside of Michigan and the US – DX. It goes without saying that it will (in all likelihood) be at the same time that one of the major DX contests takes place. Since both of us had been to St. Pierre & Miquelon Islands in October 2000 and 2001 for the CQ WW SSB DX contest, we decided that it was time to go for the CW contest in November. Ted Rachwal, K8AQM, who has been to St Pierre in the past, was definitely interested in going for CQ WW DX CW. Plans were beginning to be formulated.

Due to familiarity and past experience, the main island of St. Pierre was considered as an operating site. However, after several conversations with Jeff Benson N8CC, it was decided that the more isolated island of Miquelon would be the place to go. It offered a very ham-friendly hotel (Maxotel) plus plenty of room for antennas. Jeff insisted that the propagation difference between St Pierre and Miquelon was like night and day, and he was absolutely correct! During the summer of 2005 we started looking at flights from Detroit to Halifax and from Halifax to St Pierre & Miquelon. We also added Kurt Meyers, W8IQ, Greg Surma, K8GL, and Ian Hill, K8MM, to the crew to make it six of us. We had great logistical help from Paul De Witte, K9OT, who has been going to Miquelon in the summer for the past few years and Dale Green, VE7SV, who was there for CQ WW SSB in October 2004. Everyone had us prepared for constant high winds and freezing temperatures in late November. They could not have been more wrong.

At the Lapeer MI Swap & Shop in late August 2005 we had our first spirited meeting. The six of us were committed to the trip to Miquelon and a Multi-Multi effort in the CQ WW CW contest. Since Saint Pierre & Miquelon, a French possession, is a CEPT country licensing was easy. All that is required is to carry a copy of the CEPT agreement and your license. This allowed us to use FP/ home callsign. Unfortunately getting a more contest-friendly FP5 call was not a possibility. The next decision was the contest call. The choice of call came down to who had one of the shorter calls and (probably more importantly) who was going to get all the QSLs! The final choice was to use K8DD, certainly a well-known call in contesting circles. Ted Pauk K8NA graciously offered his service as the QSL Manager, quite handy for those of us who have little desire to deal with answering all the QSL requests!

At the Findlay OH Hamfest we received the use of two DK9SQ masts from Bill Kelsey, N8ET (Kanga US), and a discount on coax from Craig Anderson, K1CRA (K1CRA Radio Store). At the June 2005 SouthEastern MI DX Association meeting Stan AC8W and I talked to Uli Ann, DL2HBX/KK8I about the trip to FP. He indicated that he had a German Spiderbeam that is made by Cornelius Paul, DF4SA, that had never been put together, and if we wanted to use it we were welcome to take it along to use. He delivered it to us at the Findlay Hamfest. In October 2005 Henry Pollock, K4TMC (The Mast Company) came through with 10 sections of military mast and three guy rings to hold up the Spiderbeam.

In late September I finally looked at the Spiderbeam. Actually I had been in contact with Uli, KK8I, and Con, DF4SA, about the beam, and since it was an early three band version of the Spiderbeam with the old style feed, Uli upgraded the antenna with a new one for five bands – 10, 12, 15, 17 and 20 meters. It is a very lightweight antenna (around 30 lbs) made out of fiberglass poles and a plethora of wire and monofilament line. It took about 20 or 30 hours to measure all the wire and monofilament lines, wind the 1:1 balun and mount it in the waterproof box, and assemble the antenna. The SWR in my front yard came out very close to the published figures. Phase 2 of our preparation included taking the Spiderbeam down, winding up all the wire and monofilament, and meeting Ian K8MM and Kurt W8IQ at a local park. In true Field Day fashion the antenna was assembled and put up on about 15 ft of military mast. In theory the three of us were now experts as to how the antenna went together. Interesting side note: One of the township employees at the park was very concerned that we were going to leave “that thing” there permanently. We assured him that it was going to leave with us! 2000+ 20 meter contacts from FP would have had it no other way!

By the middle of October we were committed. Spouses and significant others gave their blessings, plans were solidified via E-Mail, and airplane tickets purchased. Since St Pierre & Miquelon is officially a Province of France, Euros were the preferred currency, although they will take US or Canadian dollars. All operators purchased Euros through a local bank well before leaving on the trip. Also, the power on St Pierre & Miquelon Islands is 220 Volts AC, so we had to make sure the amplifiers and power supplies were all wired for 220 VAC and tested all the 12 V wall transformers to make sure they worked with our converters from K-Mart – we did not want to blow up any equipment plugging it into 220 when it was wired, or only accepted, 110 VAC!

On the afternoon of Sunday, November 20 we all met at Detroit Metropolitan Airport with a mountain of check-on luggage! Five of us had to part with \$25 each for overweight luggage. This was a sign of things to come! By early evening we landed in Halifax and went through Canadian customs with little difficulty (one of the agents was sure that K8GL's Vibroplex paddle was “...some kind of religious statue”). Quickly we checked into the Halifax Airport Hotel (after three trips by the hotel van to get all six of us and our luggage delivered to the hotel) and made a quick trip to the restaurant and enjoyed a great dinner and a few Labatt Blues!

Our flight from Halifax to St Pierre was just after noon on Monday. After a nice breakfast we got delivered to the airport with only two trips of the van this time. We easily found the Air Saint Pierre check in. Here things got a bit pricey, to say the least. Northwest, as do most US and Canadian carriers, allowed each of us two pieces of check-on luggage not to exceed

50 pounds each. They charged \$25 for the next 20 pounds, a price that 5 of us had to pay due to amplifiers, masts, coax and these horrible necessities called clean clothes. Not bad – right? Well, the flight from Halifax to St Pierre on Air Saint Pierre was a different story. It doesn't matter how many pieces of luggage you check on to Air Saint Pierre, the first 25 kilos (about 12 pounds!) are included in the ticket price. After that it is about \$1.25 per pound. The end result for the six of us was \$492 in excess baggage out of Halifax on Air Saint Pierre! The only good news was that on the way back neither airline charged us any overweight. This inconvenience aside, we got to Saint Pierre in fine style on a French ATR airplane and through customs. At the Saint Pierre airport all customs wanted to see was a copy of our inventories (they kept one) and our passport. And they said something like "have good radio time!" I had been in contact with Jean-Pierre Carrene, FP5CJ, and I expect that since everyone on Saint Pierre Island knows everyone else (there are about 6000 people living on the island) the customs folks probably knew we were coming.

Ted K8AQM, Kurt W8IQ and Greg K8GL got on a small plane with a few pieces of luggage and radio gear while Stan AC8W, Ian K8MM and I stayed behind with two taxi cab (small cars) of luggage. We checked into the Hotel Robert (ham friendly, of course) and while Ian and I walked around the town looking for supplies (chips, beer, etc) Stan put up his Buddipole on the fire escape next to our room. By the time we got back Stan was busy handing out a few QSO's and the points for lighthouse-seekers due to one being several hundred meters from the hotel.

The next morning Jean-Pierre, FP5CJ, showed up at the hotel with a Ford F150 to take us and our luggage to the Atlantic Jet ferry, which was taking us to Miquelon to be reunited with the rest of the group. The Atlantic Jet is a 40 meter Norwegian ferry that was delivered to Saint Pierre in 2004. It is a two deck passenger ferry and one of the great deals we found in the islands. For seniors it was 9,50 Eu (\$11 USD), and 19,50 Eu (\$24 USD) for everyone else round trip. Plus.... no weight restrictions! It was a 50 minute trip to Miquelon, and after we got unloaded and everything on the dock, Ian, Stan and I just stood there wondering how we were going to get to the Maxotel, which was a mile and a half north of the dock. About the time we were going to try our high school French on one of the gendarmes, a lady walks up to us and says "I think I'm here to meet you, and I'm late." It was Christina from the Maxotel with a Ford Ranger pickup. A half hour later we were at the motel, unpacked and opening up the hard plastic golf cases that had our antennas and mast in them. Everything made the trip in spite of what should be the next Olympic sport – the "Luggage Toss" sponsored by the luggage handlers of Northwest and Air Saint Pierre airlines. In Halifax I witnessed a 60 pound suitcase with an amplifier flying 15 feet up and bouncing into the luggage hole on an airplane. And it survived!

Tuesday was antenna day. Ted, K8AQM, brought the 160M and 80M antennas. The antennas were mounted on a 45 ft military fiberglass mast. 160M was a full sized dipole was pulled up to about 43 ft by a pulley. The 80M antenna was from the Yankee Clipper Contest Club – a Double-L. The main part of the antenna was taped to the mast, fed in the center and the wire that was left over was pulled straight out from the mast. We anchored the ends on a street light out by the road, about 100 feet behind the motel. Ian, K8MM, brought two Butternut HF2V verticals and over 30 radials for each one. These verticals were set up 33 ft apart and used end fire phasing on Europe or North America, switchable via an Ameritron coax switch. The 20M antenna was the German Spiderbeam which we put up 15 feet because it was predicted that there would be high winds on Wednesday. On 15M Greg K8GL took the two DK9SQ masts and taped them to the ends of a picnic table with good old duct tape and put two delta loops on them – a driven element and a reflector – pointed at Europe. And on 10M Greg took three 20 ft fiberglass telescoping fishing poles and made a three vertical 10M antennas with quarter wave spacing and phasing similar to the 40 meter array. Ian FP/K8MM assembled his satellite antennas and got on several of the low level birds that are up there handing out some of the first QSOs from Miquelon and GN17 on as many passes and birds that he could hear and access.

Wednesday we had 60+ MPH winds, so we could not do any work on the antennas. It was a day to test what we had, and the pile-ups did not let us down! Stan, FP/AC8W was on 20M SSB with two lighthouses. The Phare du Cap Blanc SPM-002 and Miquelon Warf SPM-003. Ian, FP/K8MM was on RTTY and PSK-31 and Hank, FP/K8DD was on 17M CW with Ted, FP/K8AQM was on 30M. And later in the afternoon and evening Greg FP/K8GL and Kurt FP/W8IQ hit 80 and 160M.

We had our one day of high winds and it only made it below 32F once or twice - so much for the "constant high winds" and the "freezing temperatures". Thursday morning brought us a beautiful sunrise and virtually no wind, so we finished up the antenna work. While three were in front of the radios, the rest of the crew walked into the town of Miquelon to see what was there. Unlike Saint Pierre, with the narrow streets and narrow or non-existent sidewalks, Miquelon is spread out more, with wider streets and sidewalks and houses with yards. We found the hardware store where we purchased some European style 220 volt AC connectors for our plug strips to eliminate the adapters. And we found the grocery store (super marche), the post office (la poste), the library (bibliotheque) and the only open restaurant (restaurant) called Café Brian.

Probably less than ten percent of the 600 people on Miquelon speak more than a few words of English. And in our group Kurt W8IQ was the only one who spoke more than a few words of French. It was interesting when we would go to town without Kurt. At the grocery store they would tell us how much we owed, and when they saw the blank look they would point at the display on the cash register! Thankfully packaging at super markets is a universal language. K8GL made the mistake of asking for some wheat bread one evening. He was politely told (as translated by W8IQ) that to get "...wheat bread you must go to Canada. Here on Miquelon we have excellent French bread, and to get it you must come back in the morning".

The Euro coins are quite a bit different than the US coins. There is a 1, 2, 5, 10, 25 and 50 cent coin and while they are different sizes, they are all the same color. Then there are 1 and 2 Euro coins and the 5, 10, 20, 50, 100 and 500 Euro paper bills which are also different sizes, so it was a challenge to try to pay for things. Most of the time I held out my hand with a lot of coins and they would pick out what they needed. I don't think I would try that here! Everywhere people had smiles on their faces, and we were greeted on the street as if we were neighbors. We met an interesting mix of locals and transplants from France while on the island. Everyone seemed to have a dog. Some had horses in the yard. Noticeably missing were trees of any size.

The weather was absolutely great, except for the high winds on Wednesday. It was in the 40's (F) every day, and got up to 60F one afternoon. Being on the ocean there was always a breeze. It was more sunny than cloudy. Family and friends back in Michigan were reporting snow, sleet and freezing weather. Friday afternoon Stan and I walked out to Phare du Cap Blanc – the light house about ½ mile west of the motel. It is about 60 ft high and unmanned. There was a sign saying there were tours, but there was no one around the day we were there.

For equipment, on 160M & 15M we used a K2/100 and an MFJ ALS 500M and a 160M ½ wave dipole and for 15M we had 2 el delta loops phased. On 80M & 20M it was another K2/100 and an SB-200 with the Double L / Spiderbeam. On 40M it was an IC-706 with a FL-2100 and the phased HF2V's & dipole. 10M had an Alinco DJ-70 and the choice of 3 1/4 wave verts or a Force 12 Sigma. Before the contest we also had a 30M ½ dipole up about 30 feet on the fiberglass mast.

Friday evening (Saturday 0000Z) we started the 2005 CQ World Wide DX CW contest and ran for 48 hours. To all six operators, all testers, it was the reason for life as we know it. It was why we were there. To be a multiplier in a major DX contest! Propagation on 160 through 20 meters was fantastic. 15M was fair and 10M was barely there, but that is about what we expected.

The pileups, as far as we could tell, were quite clean and never got unruly, and at the final bell Sunday evening at 23:59:59UTC there were over 8000 in the contest log.

After dupes the final entry looked like this:

BAND	QSO	ZONES	COUNTRIES
160	1001	17	70
80	1977	20	97
40	2048	28	110
20	2184	24	95
15	737	19	82
10	17	8	12

Totals 7964 116 466
11,710,422 points



Figure 4 I - r K8AQM K8GL K8DD W8IQ (Photo by Stan, AC8W)



K8DD—No microphone in this picture! Photo by AC8W



K8MM operating RTTY Photo by K8DD

2005-2006 L.C.A.R.A. MEMBERSHIP APPLICATION

PLEASE PRINT:

CALL SIGN: _____ NAME: _____

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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