

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



WAVEGUIDE

Lapeer County Amateur Radio Association

December

Published Monthly by the Lapeer County Amateur Radio Association

2006

Merry Christmas

Happy New Year

Happy Holidays

From the Officers and Staff

Of the Lapeer County Amateur Radio Association

See you all in 2007



The Prez Sez:

Hi all, as I am writing this the weather is a far cry from what it was suppose to be on the first day of December. Got lots of wind and rain, but no thunder or lightening. I guess I didn't have to disconnect everything. We got past Thanksgiving with no ill effects. Hope it is the same for Christmas. **Looking forward to seeing you at our annual holiday party.** Chris, KC8TWL has been kind enough to handle the job of getting everything going. To everyone that have other commitments and will not be able to be at the party I wish you and yours a very joyous holiday and a quiet new years eve! And above all remember the reason for the season...Merry Christmas and Happy New Year. 73 Bob

The VeeP Sez:

Our 3rd Annual Christmas Party is being planned! If you have missed this event in the past then now is your time to partake in the Great Fellowship, Food and Fun! This is a **Free Meal** for you and your spouse with your paid membership dues. See Bill Miller (KD8VP) to pay your dues and save your seat. The Christmas Party is scheduled for December 12th at the Country-Side Banquet Hall located in Imlay City from 6pm-9pm. Mark Your Calendars!

73 – KC8TWL – Chris.

The LCARA Christmas Party is December 12 at the Countryside Banquet Center, 596 S Cedar St., (M-53, Van Dyke) from 6pm-9pm. Free to members and a guest. Reservations required - Let Bill KD8VP know if you are going to attend.

The Treasurer Sez:

Greetings to everyone. I want to wish all of you that I may not have contact with a very Merry Christmas. The treasury has not had any major expenses this month, just the usual stuff, but that will change for the months ahead in the New Year.

On December 12, 2006 our certificate of deposit expires, and as per the resolution at a past club meeting I will be putting most of that money into a two year certificate of deposit, leaving the balance in the six month certificate. Since I know that major expenses are coming up I will not be putting any of the checking account money into a CD. The major expenses being the Christmas party and our two insurance policies.

For all of you that are paid up in your dues, don't forget that the club is paying for the annual Christmas meeting and banquet at the **Countryside Banquet Center, 596 S Cedar St., (M-53, Van Dyke)**. Remember that you must be paid up in your membership to participate. Call me if you need more info.

See you at the banquet, Bill Miller KD8VP

The Trustee Sez:

Merry Christmas everyone. As many of you that listen to the 146.620 machine know it was down for a period of time while I was up north deer hunting. Murphy's Law dictates that it would go down while I am out of town wouldn't it. Well I was notified as soon as I got home and went out and investigated on Monday the 20th. I tried to plug in the Yaesu back up to know avail, so I surmised that it was in the controller. After a couple of more days, to make a long story short, I discovered that a mounting screw from the upper cover had come out and landed on the main circuit board. I do not profess to know what it was doing to the whole picture but when I shook it out the repeater started to work again. That is after doing a full reboot. I managed to figure out how to put an ID on it and a couple of other things, but at that point I was lost, as I did not have a data file for all the other files. A call for help to KD8YX got the most of the software back on line. I am going to meet with Jim to get a copy of the software for the future.

This brings us to the resolution to buy all new hardware for the repeater. I am still investigating that. The long term investigation started at the Dayton Hamvention. After talking to several controller vendors, I found that Computer Automated Technology seem to have the most interesting offering. I called the company by phone and asked for the name of someone in the area that had one, but up to this point I haven't received anything. I'll have to call them again I guess.

That's it for now; hope to see you all at the banquet. Merry Christmas!

Bill Miller KD8VP

The EC Sez:

Howdy everyone, Happy Holidays.

Ham Radio Classes:

A few people who have approached me with an interest in becoming licensed hams. Therefore, look for radio classes to be held sometime after the first of the year. Spread the word and let me know if you hear of anyone else interested.

Equipment update:

Most of the planned purchases are complete. There are only a few last minute items yet to pick-up, hopefully by months end. Next on the "To Do" list is to wire everything together, set-up the training material, then the training begins (early next year). The master plan is to have everything ready to go for the county wide SET in a few months.

Net Control Rotation for November/December:

December 04, 2006: Charlie (KC8JBK)

December 11, 2006: Bob (W8RAE)

December 18, 2006: John (KD8AWU)

December 25, 2006: Merry Christmas – No Net Tonight

January 01, 2007: Happy New Year – No Net Tonight

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. Till next month, 73 everyone,
Doug Jr., KC8ZCF

From the mailbag:

The LCARA Christmas Party is December 12 at the Countryside Banquet Center, 596 S Cedar St., (M-53, Van Dyke) from 6pm-9pm. Free to members and a guest. Reservations required - Let Bill KD8VP know if you are going to attend.

The following is something that we don't see in print very much any more, but it is still as important (or it should be) to all Amateur Radio Operators today as it was in 1928!

AMATEUR'S CODE of CONDUCT

The Radio Amateur is:

CONSIDERATE...never knowingly operates in such a way as to lessen the pleasure of others.

LOYAL...offers loyalty, encouragement and support to other amateurs, local clubs, and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.

PROGRESSIVE...with knowledge abreast of science, a well-built and efficient station and operation above reproach.

FRIENDLY...slow and patient operating when requested; friendly advice and counsel to the beginner; kindly assistance, cooperation and consideration for the interests of others. These are the hallmarks of the amateur spirit.

BALANCED...radio is an avocation, never interfering with the duties owed to the family, job, school or community.

PATRIOTIC...station and skill always ready for service to country and community.

The original Amateur's Code was written by:
Paul M. Segal, W9EEA, in 1928.

The Expanded Phone Bands

As of December 10, 2007 there will be more phone privileges on 80 and 40 Meters! And the Novices and Technician Plus (the Technicians who have passed a CW test) will have General Class CW privileges on 80, 40, 15 and 10 Meters (but NOT 20 Meters).

There is a color chart from the American Radio Relay League attached to the end of this bulletin.

There has been no indication from the Federal Communications Commission regarding the lifting of the CW – maybe it will be to give the Novices and Technician Plus licensees (those who have passed a CW test) voice privileges on the HF bands!

Scrambled English

There is more than one thinks about, with regard to copying messages, and fast code. Perhaps, one might concentrate on the first and last letters of a word, and allow relaxed accuracy on the letters in between. At any rate, this example provides a bit more insight on how the brain translates words (at least in English).

Mike, KN8Z

fi yuo cna raed tihs, yuo hvae a sgtrane mnid too

Cna yuo raed tihs? Olny 55 plepoe out of 100 can.

i cdnuolt blveiee taht I cluod aulacly uesdnatnrd waht I was rdanieg. The phaonmneal pweor of the hmuan mnid, aoccdrnig to a rscheearch at Cmabrigde Uinervtisy, it dseno't mtaetr in waht oerdr the lttres in a wrod are, the olny iproamtnt tihng is taht the frsit and lsat ltteer be in the rghit pclae. The rset can be a taotl mses and you can sidll raed it whotuit a pboerlm. Tihs is bcuseae the huamn mnid deos not raed ervey lteter by istlef, but the wrod as a wlohe.

Addendum to Murphy's Law

1. Everyone has a photographic memory. Some just don't have film.
2. He who laughs last, thinks slowest.
3. A day without sunshine is like, well, night.
4. Change is inevitable, except from a vending machine.
5. Back up my hard drive? How do I put it in reverse?
6. I just got lost in thought. It was unfamiliar territory.
7. When the chips are all down, the buffalo is empty.
8. Seen it all, done it all. Can't remember most of it.

9. Those who live by the sword get shot by those who don't.
10. I feel like I'm diagonally parked in a parallel universe.
11. He's not dead, he's electroencephalographically challenged.
12. She's always late. Her ancestors arrived on the June flower.
13. You have the right to remain silent...Anything you say will be misquoted then used against you.
14. I wonder how much deeper the ocean would be without sponges.
15. Honk if you love peace and quiet.
16. Pardon my driving, I am reloading.
17. Despite the cost of living, have you noticed how it remains so popular?
18. Nothing is foolproof to a sufficiently talented fool.
19. It is hard to understand how a cemetery raised its burial costs and blamed it on the high cost of living.
20. Just remember ... if the world didn't suck, we'd all fall off.
21. The 50-50-90 rule: Anytime you have a 50-50 chance of getting something right, there's a 90% probability you'll get it wrong.
22. It is said that if you line up all the cars in the world end to end, someone would be stupid enough to try and pass them.
23. You can't have everything. Where would you put it?
24. Latest survey shows that 3 out of 4 people make up 75% of the world's population.
25. If the shoe fits, get another one just like it.
26. The things that come to those that wait may be the things left by those who got there first.
27. Give a man a fish and he will eat for a day. Teach a man to fish and he will sit in a boat drinking beer forever.
28. Flashlight: A case for holding dead batteries.
29. Shin: A device for finding furniture.
30. A fine is a tax for doing wrong. A tax is a fine for doing well.
31. It was recently discovered that research causes cancer in rats.
32. Everybody lies, but it doesn't matter since nobody listens.
33. I wished the buck stopped here, as I could use a few.
34. I started out with nothing, and I still have most of it.
35. When you go into court, you are putting yourself in the hands of 12 people that weren't smart enough to get out of jury duty.
36. Light travels faster than sound... This is why some people appear bright until you hear them speak.

Upcoming Swaps...

ARRAY/GCARES Annual Swap & Shop	Jan 20 2007	8:00 am	Bentley Middle School, 1800 N. Belsay Rd, Burton, MI. ¼ mi north of I-69 on Belsay Rd. See flyer at end of this newsletter	http://www.gcares.org 147.100 + 100.0 PL
Hazel Park ARC Annual Hamfest	Jan 21 2007	8:00 am	Hazel Park High School 23400 Hughes Street Hazel Park MI	http://www.gsl.net/w8hp 146.640- 100 hz. pl
Niagara Peninsula A.R.C. Amateur Radio Fleamarket	Feb 3 2007	9:00 am	NEW LOCATION Merriton Community Centre 7 Park Avenue, St. Catharines ON	VE3NRS 147.240+ 107.2 PL
Michigan Antique Radio Club	Feb 3 2007	9:00 am	William Costick Activity Center 28600 West 11 Mile Road Farmington Hills MI	
BARC Spring Fleamarket	Feb 24 2007	9:00 am	Royal Canadian Legion, 828 Legion Road (west of Discovery Ford) Burlington, ON	VE3RSB 147.210 PL 131.8
Michigan Crossroads Hamfest	Mar 17 2007	8:00 am	Marshall High School, 701 North Marshall Avenue Marshall MI	146.660- 146.52 http://www.w8df.com

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...

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.

Volunteer Exam Session:

The next ARRL Volunteer Exam (VE) session will be **December 9, 2006** at 10:00 a.m. in the 2nd floor meeting room at the Port Huron Branch of the St. Clair County Library, 210 McMorrin Blvd, Port Huron, MI.

Pre-registration is NOT required for the December 2006 session.

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

IMPORTANT CHANGE FOR 2007!

PLEASE NOTE:

*At the last VE Session, we discussed scheduling for the 2007 exam sessions. Considering the number of times we had no examinees during this last year; we decided to try a year of **MONTHLY pre-registration only** sessions. Announcements will be "pre-registration required, no later than preceding Tuesday PM". This year we will be sending the schedule to area clubs, school districts and posting at the Radio Shacks.*

2007 sessions will be:

*January 13
March 10
April 14
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

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

Ten Tec Construction boxes sold out!

K7QO Code Course CD \$ FREE

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.

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

My tower and beams are disassembled and on the ground. I would like to sell them as a package or in part.

I have a price list below but no reasonable offer will be refused. All you need to do is pick up what you want.

Antenna system:

110' Rohn 45: \$825.00 (Assorted hardware, mast, thrust bearing and guy wires: N/C)

Cushcraft A3 w/40 meter add on: \$100.00

Hy Gain Explorer 14 tribander: \$100.00

Cushcraft X7 tribander: \$300.00

Tailtwister rotator: \$400.00

Force 12 EF240S 40 meter 2L yagi: \$300.00

WX0B Stackmatch: \$100.00

TH7DX: A few pieces missing \$100.00

Thanks:

John Millett K8JM

(810)-441-5941

**Be Radio-Active
Participate**

N2CQ QRP CONTEST CALENDAR December 2006

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80 METER FOXHUNT - EACH Wednesday 0200z to 0329z

(Tue 9 PM to 10:29 PM EST)

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

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40 METER FOXHUNT - Each Friday 0200z to 0329z

(Thurs 9 PM to 10:29 PM EST)

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

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ARRL 10 Meter Contest (CW/SSB) ... QRP Category

Dec 9, 0000z to Dec 10, 2400z

Rules: <http://www.arrl.org/contests/calendar.html?year=2006>

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UBA Low Band Winter Contest (CW/SSB/RTTY/PSK) .. QRP Category

Dec 9, 1800z to 2200z and

Dec 10, 0500z to 0900z

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

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The Great Colorado Snowshoe Run (40 Mtr CW)... QRP Category

MST: Dec 09, 1900 to 2049

UTC: Dec 10, 0200 to 0359

Rules: <http://www.arrrl.org/contests/months/dec.html>

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NAQCC Straight Key/Bug Sprint (CW) \*\*\* QRP Contest \*\*\*

EST: Dec 12, 8:30 PM to 10:30 PM

UTC: Dec 13, 0130Z to 0330Z

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

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MDXA PSK-31 DeathMatch ... QRP Category

Dec 16, 0000z to Dec 17, 2400z

Rules: <http://www.mdx1.org/deathmatch.html>

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Croatian CW Contest (CW) ... QRP Category

Dec 16, 1400z to Dec 17, 1400z

Rules: <http://www.sk3bg.se/contest/9acwc.htm>

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QRP ARCI:

Holiday Spirits Homebrew Sprint (CW) \*\*\* QRP Contest \*\*\*

Dec 17, 2000z to 2359z

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

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RUN FOR THE BACON (CW) \*\*\* QRP CONTEST \*\*\*

EST: Dec 17, 9 PM to 11 PM

UTC: Dec 18, 0200z 0400z

Rules: <http://fpqrp.com>

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R A E M Contest .. Low Power category

Dec 24, 0200z to 0959z

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

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AC Canada Winter Contest (All) ... QRP Category

Dec 30, 0000z to 2359z

Rules: <http://www.rac.ca/downloads/canwin2006.pdf>

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Stew Perry (W1BB)

Topband Distance Challenge (CW) ... QRP Category

Dec 30, 1500z to Dec 31, 1500z

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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](mailto: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](mailto:N2CQ@ARRL.NET)

<http://www.amqrp.org/contesting/contesting.html>

<http://www.n3epa.org/Pages/Contest/contest.htm>

**Don't stop here!  
Keep Reading!**

The next page has the new band allocations. They became law on December 10, 2007

And ... Don't forget ...

The LCARA Christmas Party is December 12 at the Country-Side Banquet Hall located in Imlay City from 6pm-9pm. Free to members and a guest. Reservations required - Let Bill KD8VP know if you are going to attend. You read it right – Free to members ..... Bill is writing the check!

Note: The bar at the Christmas Party is a cash bar – that's your cash, not Bill's!

*Merry Christmas*

*Happy New Year*

*Happy Holidays*

*From the Officers and Staff*

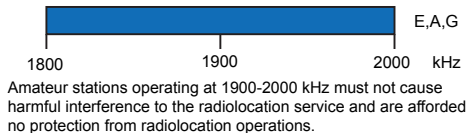
*Of the Lapeer County Amateur Radio Association*



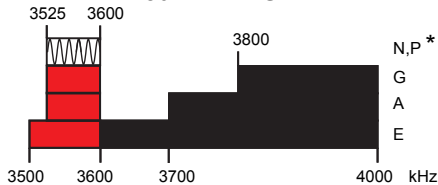
*The next regular meeting will be held on  
Tuesday, January 9 —7:30 p.m.  
at the Lapeer County Central Dispatch Center (911)  
2332 W. Genesee Street in the basement.*

Effective Date December 15, 2006

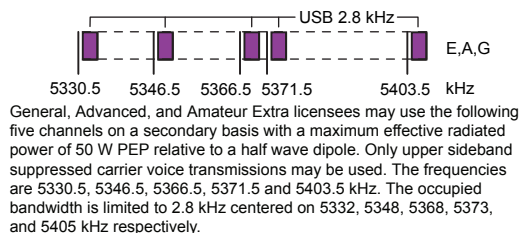
## 160 METERS



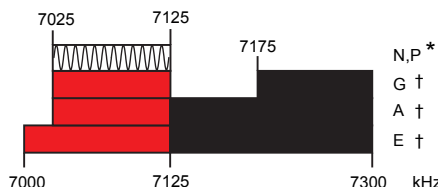
## 80 METERS



## 60 METERS

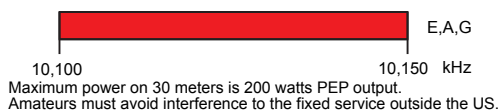


## 40 METERS

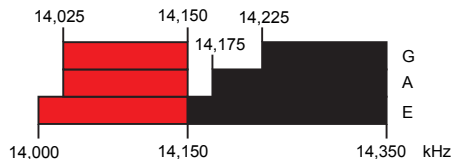


† Phone and Image modes are permitted between 7075 and 7100 kHz for FCC licensed stations in ITU Regions 1 and 3 and by FCC licensed stations in ITU Region 2 West of 130 degrees West longitude or South of 20 degrees North latitude. See Sections 97.305(c) and 97.307(f)(11). Novice and Technician Plus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

## 30 METERS



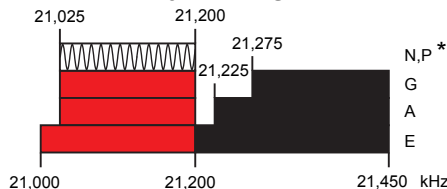
## 20 METERS



## 17 METERS



## 15 METERS



## 12 METERS



## 10 METERS



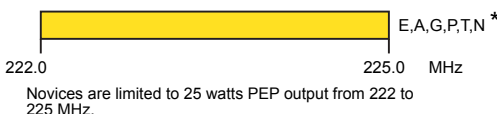
## 6 METERS



## 2 METERS



## 1.25 METERS \*\*\*



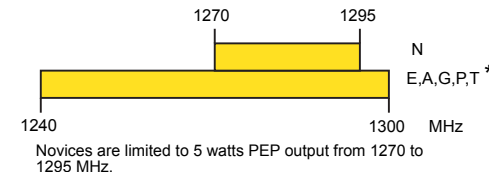
## 70 CENTIMETERS \*\*



## 33 CENTIMETERS \*\*



## 23 CENTIMETERS \*\*



### US AMATEUR POWER LIMITS

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

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

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

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

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

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

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

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

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

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

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

- 2300-2310 MHz
- 2390-2450 MHz
- 3300-3500 MHz
- 5650-5925 MHz
- 10.0-10.5 GHz
- 24.0-24.25 GHz
- 47.0-47.2 GHz
- 76.0-81.0 GHz
- 122.25-123.0 GHz
- 134-141 GHz
- 241-250 GHz
- All above 275 GHz



## ARRL We're At Your Service

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860-594-0200 (Fax 860-594-0259)  
Toll-Free 1-888-277-5289 (860-594-0355)  
Toll-Free 1-888-277-5289 (860-594-0338)  
Toll-Free 1-800-326-3942 (860-594-0355)  
860-594-0300  
www.arrl.org/

hq@arrl.org  
orders@arrl.org  
membership@arrl.org  
newham@arrl.org  
vec@arrl.org

# January 20, 2007 Burton MI

ARRAY Swap NOW Sponsored by Genesee County ARES, Inc

## 15th ANNUAL

# ARRAY/GCARES Ham Radio Swap & Shop

Vendors will be:

Com-Dac

Dentronics

Tower Electronics

Webster Communications

Amateur Accessories



[www.gcares.org](http://www.gcares.org)

VE Testing at 10am contact Don N8DI  
for more info 810-564-9638

**FREE PARKING**  
**HANDICAP ACCESSIBLE**

**\*\*\* ALL SALES INSIDE**

Dealer setup on Friday from 6pm - 9pm and Saturday starting at 6am

- ◆ SATURDAY, January 20, 2006 / 8:00 a.m. - 12:00p.m.
- ◆ NEW EASIER TO FIND LOCATION
- ◆ Bentley Middle School 1180 N. Belsay Rd. Burton, MI....
- ◆ I-69 to Exit 141 Belsay Rd go North 1/4 mile the school is on the right
- ◆ Talk-in on 147.100+ (100hz PL)
- ◆ Admission \$5 / under 12 FREE
- ◆ DOOR PRIZES HOURLY
- ◆ For more info call Clay KF8UI at 810-233-7889 or E-mail at [kf8ui@arrl.net](mailto:kf8ui@arrl.net)

### Table Reservation Form

Company or persons name:

(\$10 per 8ft table) Number of tables requested:

Address:

Number of tickets @ \$5 ea:

Phone:

Total Amount Paid:

MAKE CHECKS PAYABLE TO G.C.A.R.E.S. RM G-25 1101 Beach Street Flint, MI 48502

## 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

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