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WAVEGUIDE

Lapeer County Amateur Radio Association



January

Published Monthly by the Lapeer County Amateur Radio Association

2007

*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.*

**It looks like we are going to have a program to start off the year!
Nancy WZ8C, from the FISTS club went to Belize in Central America on the "Glass Arm Expedition" and is coming to the LCARA to tell us about the trip.**

The Prez Sez:

Hope everyone got what they wanted from Santa and made it thru New Years eve/day without any ill effects. What surprises me is the great weather we had last month (DEC). I hope we do not pay for it in the months ahead!
The tower/antenna changes made here seem to be working out very well. That makes the effort and skinned knuckles worth it.
If those that made it to the Christmas party haven't had a chance to personally thank Chris TWL and the

BETTER half for the super job of putting together the party. I haven't seen Chris since but I for one really had a great time. Thank You both very much!!!
I have a few ideas for programs this year and as I have said in the past let us know what you want to see I haven't gotten any better at reading minds. Thats it for now see you at the meeting on the 9th.
73 Bob W8RAE

The VeeP Sez:

Our annual Christmas Party was a fun and successful event. We had a Great turn out of members and their spouses totaling a record number of 43. I have several people to thank and I would like to start by giving a Special Thanks to my wife Yolanda KC8WGK for her help, in shopping for all the door prizes and gifts. Yolanda did her best to make sure there were enough items so that everyone would get something.

Next I would like to express a Special Thanks to Meijer which made a donation of \$30.00 which went

towards the purchase of the Mini Mag Lights which were presented to the club officers.

Finally I would like to say Thanks to Mary Stikeleather for the donation of a Weather Alert Radio which was the Grand Prize won by Kim Mazzola.

These donations were a big help in making sure everyone was able to receive something special. I hope everyone enjoyed themselves. 73. Chris. KC8TWL

The Treasurer Sez:

Happy New Year to everyone. Well just as predicted last month the treasury took a pretty big hit for the month of December. The Christmas Party Banquet was the major expense for the month and the whole year. The party was a great success with over 40 people attending. The food

was great and everyone had a good time. I am looking forward to next year, and as long as the members maintain Operation Care and the Swap and Shop there will be money there for the expense of it.

Also as explained in last months news, the club voted to put some of the reserves into a longer term Certificate of Deposit. That has been done but not as expected. When it came down to the expiration date of the old certificate, the rates had changed to the point that it was better to get a ONE year certificate versus a TWO year as predicted in November. So that is what I did. We now have a SIX month certificate with approximately one third of our funds that pays 4.250 percent dividend rate, and a ONE year certificate of the two thirds balance that

pays 4.750 percent dividend rate. When I first looked into the longer terms they were over 5 percent but they did not end up that way when it came right down to making the change.

The next major expenses will be for our two insurance policy's.

Thank you and have a Happy New Year.

KD8VP Bill Miller

The Trustee Sez:

Well the GE Master II repeater is repaired and back on line. How many of you actually noticed the difference? James Whitaker W8JIM, the man that we bought it from repaired the problem within two days after I took it down to him in Waterford, MI. He also did a final tweak on both the receiver and the transmitter, but said they were well within the parameters that they were originally set too back in 1994 when we purchased it. Mr. Whitaker assured me that he will be able to do any repairs to the GE with his existing supply of parts for some time to come, and that we should not worry about buying something else since there is not much available that is better than what we have.

That brings me to my research on a new controller. I have heard back from a couple of the letters that I sent to CAT controller owners. Those that

responded had good things to say about the controllers, although only one of them had the newest and best 1000B. When it came to their explanation about the Windows based programmer, again only one had experience with it. The others do not bother with it as they have programming backgrounds and did not need it. I am still trying to find someone willing to give me a hands on demonstration of the software so I can see if a dummy like me can use it. It just seems to take for ever to get somewhere, especially during the Holidays. Until everything comes together I hope that you will use the repeater more and make it worthwhile to make any changes that might be made, if any.

Happy New Year

Bill Miller KD8VP

The EC Sez

Howdy everyone and Happy New Year. Hope everybody's holidays were splendid!

It's that time of year again when plans for the annual county SET are beginning to be laid out. So far, this is what I know:

The SET will take place sometime in April. The scenario isn't cast in stone, but it will involve multiple incident scenes and it was mentioned that there would be a communications black-out.

It appears that we will really be tested this year (at last), so I'm looking for people to really participate in the exercise. Last year, we got off easy by running a net, but this year, it looks like we will have more hands on involvement. I will pass on more information as it becomes available. So, dig out the "GO" kits and get ready to play. I'm planning on involving HF operators (CW maybe also?) as well as the repeaters in this years exercise.

Upcoming events:

There's still plenty of time to pass Element 1 before it is phased out, possibly as soon as the end of February!

March 29, 2007: Lapeer Skywarn Training, Lapeer East High School, 7:00 PM. This years training has been updated and attending a training every (2) years is a requirement to maintain your Skywarn card. Online registration will be available soon.

April, 2007: "April's Fury" County wide SET

Net Control Rotation for January and February:

January 01, 2007: Charlie (KC8JBK)

January 08, 2007: Bob (W8RAE)

January 15, 2007: John (KD8AWU)

January 22, 2007: Doug (KC8ZCF)

January 29, 2007: Charlie (KC8JBK)
February 5, 2007: Bob (W8RAE)
February 12, 2007: John (KD8AWU)
February 19, 2007: Doug (KC8ZCF)
February 26, 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!

Last month, I forgot to thank Bob (W8RAE), Charlie (KC8JBK), and John (KD8AWU) for running the Monday Night Net on simplex back in November when the repeater was kerbusted (yes, that's a technical term). I'd also like to thank everyone who checked in under the same conditions. It would have been much easier to just have forgotten having a net. For those that aren't aware, if the repeater goes down, please remember to run simplex on the output frequency (146.620 MHz) so you will be heard.

Well, that's it from here. Till next month, 73 everyone,

Doug Jr., KC8ZCF

From the mailbag:

From The ARRL Letter, Vol 25, No 50 (Dec 22, 2006)

==>FCC ELIMINATES MORSE CODE AS EXAM REQUIREMENT!

Early next year, the US will join the growing list of countries that no longer require Amateur Radio applicants to pass a Morse code test as the entry ticket to HF. Announcement of the pending historic rule change arrived with no fanfare December 15 in an FCC public notice. A full-blown Report and Order (R&O) in the proceeding, WT Docket 05-235, followed December 19. The best estimate of when the Morse code requirement will go away officially is sometime in February -- 30 days after the R&O appears in the Federal Register.

The FCC also ordered that all Technician licensees present and future -- whether or not they've passed a Morse code test, will get privileges on 80, 40, 15 and 10 meters identical to those of Novice licensees. "In eliminating this disparity between Technician and Technician Plus licenses, we are simplifying the Amateur Service licensing structure and promoting regulatory parity," the FCC said.

The FCC took advantage of the occasion to act on the League's Petition for Partial Reconsideration in the "omnibus" proceeding, WT Docket 04-140, calling on the Commission to retain 3620 to 3635 kHz for automatically controlled digital stations by moving the Extra class phone band edge to 3635 kHz. The FCC decided instead to authorize 3585 to 3600 kHz for such operations, and leave the newly expanded phone band intact.

The pending disappearance of the Morse code requirement seems to have rejuvenated the urge to upgrade. ARRL Sales and Marketing Manager Bob Inderbitzen, NQ1R, says sales of General Class license training materials have skyrocketed in the week after the FCC announcement.

The ARRL has posted information relevant to the FCC action in WT Docket 05-235, including an FAQ, on its Web site <http://www.arrl.org/fcc/morse/>.
[portions deleted for brevity]

Q. I am a "no-code" Technician. What does WT Docket 05-235 mean to me?

A. Once the changes are in effect, all Technician licensees -- whether or not they have passed a Morse code examination -- will have "Tech Plus" operating privileges. This means you will have all of your current VHF/UHF and above frequencies and also will have access to the Novice/Technician Plus frequencies on HF. These include:

3525-3600 kHz CW only

7025-7125 kHz CW only

21,025-21,200 kHz CW only

28,000-28,300 kHz CW, RTTY and Data

28,300-28,500 kHz CW, SSB

The power limit is 200 W PEP output for Technician operators.

Technicians can upgrade to General by passing the Element 3 written exam and to Amateur Extra by also passing the Element 4 written exam. No Morse code test will be required.

Quoted below is a nice piece I saw on another forum. Well written!

"SO NOW YOU'RE HF-ACTIVE"

By Heath Roberts, KE5FRF

"Wow, I never thought this day would come. The FCC finally flexed its regulatory muscle and notified the world that US Amateur Radio operators will no longer be required to pass a Morse Code proficiency test to indulge in the world below 50 Mhz. What does this mean for ME?"

This is a fair an honest question that many Technician class amateurs will be faced with in the coming weeks and months as American hams learn to accept the end of a long standing tradition and the beginning of a new era. It is natural to be excited about the new privelages that you will be granted. You are eager to plan your new HF station, purchase some new gear, and maybe even erect a tower and directional antenna for that DX band you've been hearing such great things about. There is so much out there to do and be a part of, you don't know where to begin.

I can assure you, this is a road that everyone has traveled in their quest as an amateur operator, code or not. You'll be certain to recieve the wise counsel of some older fellow who has more than a few tips to share. A friend who upgraded his license to General last year will offer his insight into propogation and techniques for busting a pile-up. The local club will be offering a class on operating procedures. No worries, for there is a lot of resources at your disposal. All you must do is display a willingness to learn.

As exciting as the news is for you and as eager as you are, you can't help but wonder what mode you will like the best. Everyone says that PSK-31 offers the most efficient use of the spectrum and can cut through a host of propogation conditions that other modes can't. You saw an Extra class ham on Field Day working a digital station and this was the mode he used. It was interesting and he sure looked like he was having fun, but it kind of reminded you of an internet chat room like QRZ.COM.

Your buddy, the guy who upgraded his license before the new rules, swears that SSB is the funnest mode. He barely squeaked by on his code test and never looked back. He regularly checks into the WAS nets and is close to his goal on 80 meters and already confirmed 40 meters. There certainly won't be a lack of new friends to make on phone. Hmm...maybe this will become your favorite mode too.

But there's one other fellow who keeps showing up and offering you suggestions that make a lot of sense but you're just not sure if you have it in you. He's the local CW guru and he spent the last two years coaxing you to master the code before the requirement was dropped, but you failed to heed his advice. You know it is probably too late to learn it now, the new rules go into effect next week, but you must admit that with the "pressure" off the idea of

casually studying the code is intriguing. You've read some stuff on the internet about colorful figures in the history of amateur radio and telegraphy like Hiram Percy Maxim and T.R. McElroy. You've watched your CW friend use his Blue Racer during a contest and was fascinated by his skills. You feel a certain connection to this storied tradition even when you tap out "SOS" on your desk with your index finger.

What is stopping you from turning your years of procrastination into something you think might benefit you in the long run?

My friend the answer is simple. Nothing is stopping you, nothing at all except the same thing that hindered every CW op who ever "dit his first dah." Learning Morse Code is a work in progress. It is an endeavor of achievement that has a definat beginning but no real end. No matter what skill level your CW associates may brag to possess, they all make mistakes and have plenty of room for improvement. Just knowing this should set your mind at ease and give you inspiration!

Yep, you finally got that new HF rig via UPS delivery. The tower isn't up yet, but you managed to hoist a coax fed dipole into the old oak tree in the back yard. You cut it for 40 meters in hopes that it will offer the most playing time at this point in the sunspot cycle. Everything is hooked up and ready to go.

Power "ON"....Shschshhhschhtishahshhi....Static. "Hmmm what frequency is that? Oh, out of band."
"...Zzschshizzz...dadidadit dadidadah...dadidadit dadidadah. Oh boy, you recognize that familiar sound. Someone is calling CQ in code. Well, at least you know your antenna and feedline are working ok. Tune up...tune down...tune up. Nothing but static crashes and faint voices. You can't make anything out. Everything seems to be in order, filters configured for SSB. This is 40 meters, and you are on the lower sideband. "Oh well, I guess the band is dead".

So you tune back down to the CW subband. Amazingly, as you move back to that CQ frequency, you must hear at least three ongoing QSOs along the way. Two of them are way to fast to make heads or tails, but one guy is sending slow enough that even YOU can copy a few of his characters. "Wow", you think. "I could do THAT!" You put the headphones on and lean back in your chair, close your eyes, and listen to the rhythm. You only know a handful of letters...S,O,C,Q....uh..uh...well SOS and CQ...but you are amazed that every time you hear these characters you immediately recognize them. "Hey, 26 letters in the alphabet, and I already know four!" You think to yourself, "Not bad."

My friend, you've just been bitten by the bug. There is a mystery behind all of those funny tones in the ether, and we've all found a childlike fascination with them at some point. You stand on the threshold of letting it be more than a fleeting interest. You have an opportunity before you to affiliate yourself with a tradition that has stood the test of time, and will stand strong many, many more years despite the actions of the Commission. Will you be just another op who jumps on board the sideband rollercoaster of QRM and static, or will you take the time to learn and develop a skill that will stay with you a lifetime?

This message is brought to you in hopes that you will consider the opportunities that CW brings. There is a large group of hams young and old whose only desire is to see the art and skill of telegraphy passed on for as long as it is feasible. Back before the FCC R&O, many of these folks seemed abrasive, but you must realize that they knew this

day was coming but wanted nothing more than to delay it for as long as they could. Their desire is not to hold back deserving and ambitious hams who have much to offer. It never was. They simply seek to maintain the traditions which are the history of this hobby. They want to preserve and foster a mode of communication that they love and are proud to be a part of. Were their concerns and their motivations so unworthy?

Next time you fire up that brand new rig and hear the tell-tale music of Samuel Morse's creation, think about these things, and consider getting in touch with that fellow with the Vibroplex. I'm sure he'll be glad to invite you to his shack to show off his bug collection, and no doubt he'd be the first to take the time out to teach you those other 22 letters and some numbers to boot. Just think about it.

73, KE5FRF

TOWER and ANTENNA REBUILD NOTES

Jim Heath, W8NGO

Here are some notes that I made while dropping and rebuilding my tower, antenna's and accessories that might be of help to someone that may plan on doing the same thing.

Order as many parts that you plan on replacing a head of time in case of back orders and those such things.

I replaced all steel components with stainless steel and aluminum some places that I dealt with locally to get these items were:

Mid-State Nut and Bolt on Imlay City road very good people to deal with. Got the best price over anyone from them on 800 ft of galvanized aircraft cable, for guys, also when they say an item will be in on so an so day its there. They also have a good supply of stainless bolts, but stainless U-bolts have to be ordered.

Lowe's and Home Depot have stainless bolts and U-bolts, in both places there U-bolt supply is not located in the nuts and bolt drawers but located way to the right and almost to the end of the aisle and on the same side.

Bob/W8RAE located a supply of stainless bolts and various plastic caps that can replace the missing or cracked caps on your Tri-band antenna, at Grove True Value Hardware in Oxford.

If you have an older CDE rotor (Ham M or etc.) with the 8 pin terminal strip at the bottom and it appears to be rusted out, good news it isn't, the terminal connections are made of brass, just the 6-32 steel screws are rusted and makes the strip appear shot. A scratch of the terminal strip metal with a screwdriver will confirm it is brass.

Remove the screws, clean up the brass terminals with crocus cloth or the like, and replace the screws with 6-32 stainless. I re-tinned one of the terminals but found that the heat from the solder gun made the terminal fit sloppy in the plastic terminal strip, so don't waste your time.

On the side of safety if you install any type of braces, brackets or other accessories to the tower make sure that the nuts that fasten these things in place face to the outside of the tower, so you can see if they are missing. In tower construction this is a safety standard. Say in the case of a support bracket, if the bolts had there nuts facing inward, they could be missing with the bolts still in place, one might grab on to it for support or hook a belt on to it and it would more than likely come a part, with the fasteners properly installed the missing nuts would be seen before you hooked up.

On grounding the tower use good copper clad steel ground rods of at least 5/8" diameter and a minimum of at least 8' in length. If your ground rod doesn't have a lead cad-welded to it make sure you use a clamp that is designed for connecting the ground wire to the rod. The proper ground rod clamps are kind of tear shaped and have a bolt at the wider end. I think that they are made of Brass and can handle a rather large size of ground conductor and current. I paid \$2.62 a piece for them at Lowe's when I bought my ground rods. After cleaning the ground rods and ground leads I coated them all with No-Ox, Mosley included this with my new antenna and I had plenty left over for the grounding job I am sure you can get a tube of the stuff at Home Depot or Lowe's. I would not use the ground clamps that clamp to your water pipes, this is not the job that they are made for,

you can not get a good sized ground lead in them, use the ground rod clamp it makes a better physical and electrical contact.

There is an article that I dug off of the Internet on grounding that shows that our ground rods should be down 25 to 30 feet to get the ground resistance to 5 ohms (5 ohms is what the electrical industry shoots for).

(You can buy couplers to extend the length of ground rods as you drive them.) A 10 foot ground rod resistance is about 30 ohms from this paper.

<http://www.groundperfect.com/deepearthpaper.htm>

You could go to your Internet page and type in your Search Box "deep earth grounding versus shallow earth grounding", or I can send you the link via email, am good on qrz.

I have put in eight ground rods that are eight feet in length and these circle around the tower.

As far as I am concerned the best thing to do during a storm is to disconnect the antenna coax, ladder line and rotor cables outside and let them hang in the clear to gain a better shot against a lightening hit in your shack.

73 jim heath w8ngo

Upcoming Swaps...

ARAY/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

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

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 **January 13, 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 future 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:

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

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

January 2007

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N2CQ QRP CALENDAR  
JANUARY 2007

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80 METER FOXHUNT - EACH Wenesday 0200z to 0329z

(Tue 9 PM to 10:29 PM EST)

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

~~~~~  
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 RTTY Roundup ... <= 150W Category

Jan 6, 1800z to Jan 7, 2400z

Rules: <http://www.arrl.org/contests/calendar.html?year=2007>

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EUCW 160 Meter Contest (CW) ... QRP Category

Jan 6, 2000z to 2300z and  
Jan 7, 0400z to 0700z

Rules: <http://www.agcw.org/eucw/eu160.html>

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DARC 10-Meter Contest ... <=100 W category

Jan 8, 0900Z to 1059Z

Rules: <http://www.darc.de/referate/dx/xedczr.htm>

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070 Club PSKFEST Contest ... QRP Category

Jan 13, 0000z to 2400z

Rules: <http://www.podxs.com/html/pskfest.html>

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Michigan QRP Club Contest (CW) ... QRP Contest!

Jan 13, 1200z to Jan 14, 2359z

Rules: <http://www.qsl.net/miqrpclub/contest.html>

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North American QSO Party (CW) (100w max. QRP Entries Noted)

Jan 13, 1800z to Jan 14, 0600z

Rules: <http://www.ncjweb.com/naqprules.php>

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

EST: Jan 17, 8:30 PM to 10:30 PM

UTC: Jan 18, 0130z to 0330z

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

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LZ OPEN CONTEST (CW 80M/40M) ...QRP Category

Jan 20, 0400z to 1200z

Rules: <http://www.linkove.com/lz-open-contest/>

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North American QSO Party (SSB) (100w max. QRP Entries Noted)

Jan 20, 1800z to Jan 21, 0600z

Rules: <http://www.ncjweb.com/naqprules.php>

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ARRL January VHF Sweepstakes ... Low Power Category

Jan 20, 1900z to Jan 22, 0400z

Rules: <http://www.arrl.org/contests/calendar.html?year=2007>

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Run For The Bacon (CW) \*\*\* QRP Contest \*\*\*

EST: Jan 21, 9:00 PM to 11:00 PM

UTC: Jan 22, 0200z to 0400z

Rules: <http://fpqrp.com>

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NAQCC 160M Straight Key/Bug Sprint \*\*\* QRP CONTEST \*\*\*

EST: Jan 24, 8:30 PM to 10:30 PM

UTC: Jan 25, 0130z to 0330z

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

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CQ WW 160-Meter DX Contest (CW) ... QRP Category

Jan 27, 0000z to Jan 28, 2359z

Rules: <http://www.cq-amateur-radio.com/awards.html>

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REF (French) CW Contest ... QRP Category

Jan 27, 0600z to Jan 28, 1800z

Rules: <http://www.arrl.org/contests/months/jan.html>

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BARTG RTTY Sprint Contest

Jan 27, 1200z to Jan 28, 1200z

Rules:

[http://www.bartg.demon.co.uk/Contests/07\\_sprint\\_rules.htm](http://www.bartg.demon.co.uk/Contests/07_sprint_rules.htm)

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UBA DX Contest (Belgian) (SSB) ... QRP Category

Jan 27, 1300z to Jan 28, 1300z

Rules: [http://www.uba.be/hf\\_contests/pdf/ubatest\\_dx.pdf](http://www.uba.be/hf_contests/pdf/ubatest_dx.pdf)

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QRP BARBERSHOP QUARTET CONTEST (CW QRP)... QRP Contest!

Jan 31, 9 PM to 11 PM EST

Rules: http://www.io.com/~n5fc/barbershop_contest.htm

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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)

# 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

P.O. Box 12

Hadley, MI 48440-0012