

The Zero Beat

THIS MEETING

February 13, 2013
7:30 P.M.
 (socializing begins at 7)
Hoover Elementary School
23720 Hoover Ave.
Hazel Park 48030

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GENERAL MEETING

The next meeting of the Hazel Park Amateur Radio Club will be held on Wednesday, February 13, at 7:30 PM. Larry Koziel K8MU will demonstrate the newest facet of the club's online presence -- Hazel Park ARC Forum. The forum provides a place to carry on conversations in areas of interest to club members. Larry will show you the basics, as well as features like attaching pictures to postings, and following selected parts of the forum by e-mail. (There's a related article on page 7.)

Come early and visit with fellow hams. Everyone is welcome to come to the meeting and bring a friend. Coffee and donuts will be provided during the break.

Anyone wishing to join the club, please go to the website www.hparc.org. Fill out the membership form and bring a printed copy to the meeting. Membership forms can also be filled out onsite before the meeting.

PRESIDENT'S QRM

I am writing this column at 8 PM on Sunday, a while after we finished up with the last on-site details of putting on the swap. And right now I send a huge "Thanks" to those who were there working, moving tables and chairs and making sure that things wound up where they were supposed to be. Also, a very hearty "THANK YOU" to the party responsible for the weather being so perfect for a swap, and for the snow waiting until Monday.

Great work, my friends.

This swap started out slower than those of the past few years, but we had very good attendance in spite of that. Of course the weather did help a bit, it was the best weather for a swap in many years. The weather was one of the very

few things that Bernie, W8NBC had left to chance. He certainly did a good job getting everything else together. It seems like Barb, KD8SAA may have been involved a bit, also. An additional note from our treasurer, Bob, is that we did well on the swap, as far as expenses versus income, at least so far. So we can afford to have food again this field day.

We did get several comments from people who said that our swap was the best in the area, and that we were the friendliest group having a swap. For that, I thank all of the club members. One thing that we should realize is that the secondary effects of our effort to be friendly at the swap is that those attending enjoyed it, which means that they will probably want to attend next year, and

(Continued on page 2)

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VOLUNTEERS

- **Technical Coordinator & W8HP Trustee :**
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- **HPARC Official Cook:**
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- **Swap:** Swap Chair
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QRM, CONT'D.

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they may also tell their friends who didn't come this year about what a great swap it was. That would improve attendance next year. According to the initial account, we sold 617 tickets this year. I think that is better than the past few swaps, and it is good by any standard.

Working at the back door, I saw a few real treasures carried in, and later I saw other treasures being carried out. Did anybody purchase some treasure that they would like to tell the club members about? The Sunday evening net is the perfect place for that.

I should be able to comment about what the presentation will be at the February 13 meeting, but I don't have that information yet. But I am certain that it will be both educational and interesting, and probably what we learn will be useful. I am looking forward to it.

A useful thing for certificate chasers to know is that our friend Sean Fleming, K8KHZ is still the primary card checker in this area. The convenience and security for your cards that is available with "carry-in" card checking is quite valuable, since some of those cards are not replaceable, should they get lost in the mail. Bundles of cards do get damaged in the mail sometimes, and alternatives such as UPS Secure shipping are not cheap. Do we know any cheap hams?

Field Day is coming, and while it is a while off, now is the time to start planning on what equipment will be used and what accessories will be needed. "Avoid the June Rush", and start planning now.

I look forward to seeing everybody at the meeting on February 13, in the gym at Hoover Elementary School. The call-to-order will be at 7:30 PM, and the coffee will be available prior to the meeting starting. The casual social gathering starts around 7:00 PM.

73 de N8QVS, William Ketel

WELCOME NEW MEMBER

Ken Hooper KE4BIO

HPARC NETS

HPARC Official Sunday Night 2-meter Phone Net

Every Sunday at 9:00 PM local time on the DART repeater, 146.64 (PL 100), catch up on club news and information, and just to keep in touch. All amateurs are welcome to check in.

N8WYO CW net (Medium speed)

Named in memory of Al N8WYO. The net meets Tuesday night at 8:00 PM on **28.028 MHz**. All amateurs are welcome. CW speed fluctuates between 20-25 WPM, but Joe will slow it down if necessary. Listen in at 8 PM sharp!

Wolverine Net

The 75 Meter Wolverine Net meets on 3935 KHz daily at 7:00 PM local time, with pre-net starting at 6:00 PM. You can get details from <http://www.wssbn.com/>

Oakland County ARPSC

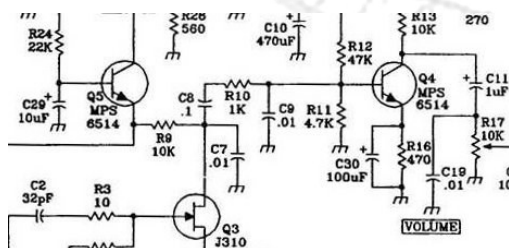
Every Thursday @ 8 pm on 146.90 (PL 100). Hospital Radio Net on last Thursday of each month @7:30. (W8OAK-3 will run packet on 147.56 MHz for those wanting to practice and test their equipment) <http://www.arpac.com/>

NTS Traffic Nets

The Southeast Michigan National Traffic System (NTS) net Normally held every night at 10:15 PM local time on the 146.76 (PL 100) repeater. New people are welcome.

Nearby Club Nets on HF

Mon @ 7:30 PM, LCARC 15M CW, 21.165
Mon @ 8:30 PM, LCARC 15M SSB, 21.395
Wed @ 7:00 PM, USECA 6M SSB, 50.140
Fri @ 9 PM, USECA 80M CW, 3.570
Fri @ 10 PM, USECA 10M SSB, 28.425



SKYWARN TRAINING

Training for the Skywarn severe weather spotting program will be offered in both Oakland and Macomb Counties in coming months. Not all tornadoes show up on weather radar. Skywarn volunteers are often the first to give the alert in situations where even a few minutes' warning can save lives.

Skywarn training classes give individuals the basic tools needed to be severe weather spotters. They are taught what and where to look for dangerous weather, and how to report it. Classes are free and last about two hours.

Oakland County classes will be held as follows:

- ◆ Mon, Feb. 25, 7-9 PM, Groveland Twp Fire Station #1
 - ◆ Wed, Feb. 27, 6-8 PM, Southfield Civic Center Library
 - ◆ Wed, Mar. 6, 7-9 PM, Oakland County Homeland Security Division (EOB Bldg 41W)
 - ◆ Mon, Mar. 11, 7-9 PM, Groves HS, Beverly Hills
 - ◆ Sat, Apr. 20, 10 AM-noon, Oakland County Homeland Security Division (EOB Bldg 41W)
 - ◆ Sat, Apr. 20, 1-3 PM, Oakland County Homeland Security Division (EOB Bldg 41W)
 - ◆ Tue, Apr. 23, 7-9 PM, Rochester Hills Fire Station #1
- To register, go to www.oakgov.com/homelandsecurity, and click on the Skywarn logo, or call (248) 858-5300.

Macomb County classes will be held as follows:

- ◆ April 3, 2013 @ 6:30 PM
- ◆ April 16, 2013 @ 6:30 PM
- ◆ April 20, 2013 @ 9:30 AM.

All classes will be held at the MISD Building, 44001 Garfield, Clinton Township in Room 100B. Please call (586) 469-6392 to register.

Winter Hats and Gloves Wanted

AMVETS District II, of Madison Heights, is seeking hats and gloves, as well as other items of warm clothing, to help 578 homeless veterans, both men and women, living at shelters in Southeast Michigan. This clothing is often all they have to keep them warm through the winter. If you have items to donate, in good condition, please bring them to Ken Krause AD8M at the next HPARC meeting.

C Q D X

8P9 Barbados—An eight-member DXpedition will operate 160-10m using 100 watt rigs and Buddipole antennas until 2/6. QSL via instructions under each call on QRZ.com.

6W Senegal—6W/F6IRS Jean-Claude will operate on all bands SSB, holiday-style to 2/7. QSL to home call via buro.

FR Reunion Is—FR/F8APV Pierre and FR/F8EOI Stephane will operate 40m and up until 2/8. QSL via home call.

J7 Dominica—J76A Tony will operate in his spare time 160-6m until 2/11. QSL via his home call W3UR.

S7 Seychelles—S79AN Bert will operate from Mahe Is, Seychelles, 80-6m SSB and CW, 2/4-2/11. QSL via CX3AN.

5X Uganda—5X8C, a large international DXpedition, will operate six stations on 160-10m all modes 2/8-2/18. More information at www.5x2013.com.

ZK3 Tokelau Is—ZK3T Dieter is active until 2/20 on 160-10m, CW and some RTTY. QSL via DJ2EH.

5H Zanzibar—5H1Z Sam will be active until 2/28 on 40-10m SSB and CW. QSL via F6AML.

5W Samoa—5W0W Ralph will be active on 20-10m SSB and digital modes until 3/3. QSL via NR6M.

4S Sri Lanka—4S7KKG Peter will be active until 3/09, mainly on CW and digital modes. QSL via home call DC0KK.

J5 Guinea-Bissau—J5UAP Peter will be active on 10-30m CW until 3/10. QSL via HA3AUI, direct only. Also, J52HF, a group of five Italian ops, will be active 2/10-3/2 on SSB, HF and 6 meters. QSL via I3LDP.

5V Togo—5V7JD Jack will be active holiday style 2/4-3/15. QSL via F8AEJ.

XU Cambodia—XU7ACQ will be active 80-10m 2/10-3/18. QSL via KFORQ.

V6 Micronesia—V63ZM Bob will be active on 80-10m, maybe 160m, 2/13-2/23. He will also operate as KH2/G3ZEM from Guam 2/9-1/12. QSL via M0URX.

XT Burkina Faso—XT2TT, an Italian group, active 2/21-3/6 with four stations. See www.i2ysb.com/idx.

LOTW STATUS

ARRL Logbook Of The World (LOTW) users can breathe a sigh of relief. Starting around January 10, the processing backlog started shrinking. By January 15, it was down to a few hours, and now runs only minutes or seconds. Spot checks of <http://www.arrl.org/logbook-queue-status> show a capacity of about 250 logs per hour, which means new LOTW entries should show up quickly except after major contests.

Since the upgraded computers at ARRL HQ are doing their job well, this feature won't be in future Zero Beats.

CONTEST CORNER

For details visit the WA7BNM Contest Calendar or the ARRL Contest Roundup

February 2013

2 Minnesota QSO Party
2-3 EPC WW PSK Contest
2-3 Vermont QSO Party
2-3 British Columbia QSO Party
2-3 Delaware QSO Party
2-3 Ten-Ten Winter Phone QSO Party, SSB
2-3 Black Sea Cup International
8-10 YL-OM Contest
[9-10 CQ WW RTTY WPX](#)
9-10 Dutch PACC Contest
9-10 Louisiana QSO Party
9-10 New Hampshire QSO Party
9-10 AM QSO Party, AM only
10-11 Classic Exchange, AM-SSB (feat. classic rigs)
[11-15 ARRL School Club Roundup](#)
15-16 Russian WW PSK Contest
[16-17 ARRL Int'l CW DX Contest](#)
22-24 CQ WW 160 Meter SSB Contest
23-24 REF Contest (France), SSB
23-24 UBA Contest (Belgium), CW
[23-24 North American QSO Party, RTTY](#)
23-24 Mississippi QSO Party
24-25 North Carolina QSO Party

March 2013

[2-3 ARRL Int'l SSB DX Contest](#)
16-17 Russian DX Contest

ON-AIR EVENTS

Stations commemorating special events. Work these for special QSL cards and certificates.

Until 2/4 — W5B, Buddy Holly memorial, Lubbock, TX.
18.150 14.260 7.260 3.860. www.amcrc.com/w5b

Until 2/18 — OE2013__ — Special prefix to celebrate the FIS Alpine World Ski Championships at Schladming, Austria. Look up individual calls on QRZ.com. Award information at <http://wmdiplom2013.oevsv.at>.

2/9 — NI8G — Thomas A. Edison's Birthday, Milan, OH.
1400-2000Z, 28.370 21.370 14.270 7.270. QSL or certificate available, send SASE to NI8N.

REPEATER COMMITTEE REPORT

By Tony Gallucci/N8VR

I know it's hard to see any action, but believe me, there has been a flurry of activity in the background. Hopefully some of you were able to participate in our VHF repeater test on Jan 19th. We are trying to establish just how well the DART works with and without the remote receive sites, and to do that we needed to put operators in specific locations. We still haven't fixed the East Side receive, but we do better understand what the issue is. The good news is that it seems the East remote is working properly, but the 440 link receiver at the main site is introducing some strange audio. Hopefully it will be an easy fix!

The DART has put together a full team to manage the repeater. Up until now, it's been Murray KE8UM's sole responsibility, and he's had the burden of keeping it on the air by himself. This wasn't so difficult when it was just the 2 meter, but once we brought the UHF and 4 remote receive sites online several years ago, the work grew dramatically. To allow the DART to continue to grow, we need to have a larger group of people managing it.

As committee chair, I've pulled together a few folks who will serve as committee members. They are: Jon Benavides

KE8CU, Alex Bertalan N8AJB, David Drapkin N2PQW, Walt Carter KD8LWC, John Pollman K8ZEC, John Teagardin AA8UU, Jerry Schuman KA8D, Murray Scott KE8UM and Ed Walton N8LBS.

The committee's purpose is to keep the DART operating well, but more importantly develop several members who understand its operation and can service it. I'm hoping that by pairing a variety of these guys together, we can elmer and respond more quickly when there is a problem.

Simultaneously the HPARC Forum (<http://forum.hparc.org/>) was brought online; this has been a great help to our committee as it serves as our main collection site for our discussions and electronic records. There are 2 sections there—one open to the entire club, and one specifically for our committee. I'll post info of interest to the club members in the DART Board forum.

If you are interested in assisting with DART testing, please email me at N8VR@arri.net. The best way to be involved in the repeater system is to actually use it. Get on the air and throw out your call sign. If someone calls out, respond to them. As Bill/N8QVS says, we want to be the friendliest repeater in town, and that starts with us.

CW, ANYONE?

By Jon Benavides KE8CU

Have you ever wanted to learn to copy CW? Have you learned CW but haven't practiced in a long time? If the answer to either of those questions is yes, then why not do something about it? Have you ever wondered why in the world amateur radio operators still use this method of communication? Let's find out!

Invented back in 1836 by Samuel Morse along with Joseph Henry and Alfred Vail who were working on a DC telegraph system, the first code was created. It went through changes over the years. At first, what was nothing more than clicks caused from a striker and electric coil, it later changed to a stylus making marks on a paper tape, and was originally slated for just numbers. Morse code underwent changes up to the 1890s when it was being used for telegraphy over the air waves.

CW stands for "continuous wave," just on-off keying of a

carrier. Even though it is a very old method of transmitting information, it is still widely used today.

CW has many advantages over phone communications. First, CW has the ability to be heard much more reliably during periods of high noise, especially where weak signals are involved. Because there is no audio information, you can filter a CW transmission to a very narrow bandwidth. This allows stations operating CW to use frequencies very close to one another without interfering, allowing more stations to fit within an area of the band. For instance, a typical AM station requires a filter around 6 KHz, while SSB is about half that at 2.5 KHz. CW under normal conditions needs around 400 Hz but can be narrowed down to around 200 Hz depending on your preference.

Unlike phone communications, CW does require some skill. It's not something you can start doing right out of the

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HPARC HAMFEST RECAP

By Bernie Hildebrand W8NBC

Here we are having just finished our 47th annual HPARC Swap and Shop. All went well despite a couple of glitches early on. Then on the day of the swap we had terrific winds that I am sure kept some from attending. I know it did keep one vendor from driving down to join us. The setup went real well on Saturday. Tables came in and it went fairly fast. Tear down on Sunday went real well, in fact if the table supplier had been on time we would have made it out in record time.

We had over 600 tickets sold. I looked around the corner from our swap table at about 9:00 am and the aisles between tables were packed with people. I was glad to see one of our Canadian friends won one of the cash prizes. It was good to hear from the attendees that they were impressed with the way the club members helped them.

All in all it went well and a big THANK YOU to all who helped with the swap from the set up to the tear down. As I said, this is a group event, not a one person show. Thank you all again.



Photos by Wes Plouff AC8JF

CLASSIFIED AD

FOR SALE: Kenwood TS-450AT HF transceiver, 100W on 160-10 meters including WARC bands. Built-in antenna tuner; SSB filter installed. Includes MC-60 desk mic and service manual. Original owner, non-smoking

household. Rig is in excellent condition.

Asking \$600.00 or make an offer. Call Les KF8UU at 248-399-0158.

GETTING STARTED ON THE HPARC FORUM

By Larry Koziel K8MU

The February meeting program will be a live demonstration of the newest facet of the club's online presence -- Hazel Park ARC Forum. Forum software was installed and configured on our web server by Larry K8MU, our webmaster, at the beginning of January and has been undergoing testing by members of the Board of Directors and of the newly constituted Repeater Committee.

The forum provides an online place to carry on conversations on various topics of interest to club members in areas such as Field Day and Contesting, Public Service, the DART repeater and Elmering, as well as a place to list ham radio and computer-related items to sell or buy. It also serves as a mechanism to make announcements about the club and for the club to solicit feedback from the membership.

The forum is available now at forum.hparc.org. You're welcome to visit and browse the postings now, and to begin the registration process.

One thing that was learned in the testing phase is that online forums such as ours are subject to constant assault by "spam bots" -- automated software that combs the internet for websites on which they can register and subsequently post spam messages like the ones found in typical email spam. In less than a month of testing so far, we have averaged more than one attempted registration per day by bots. Consequently, registration is now a mult-step process:

1. Begin the registration process online with your call sign as your user id and a valid email address. (Unlicensed members, please use an identifiable name.)

2. Choose a password. (Write it down somewhere safe.)
3. Remember your password! There's a process for getting you a new password if you forget the one you chose, but it'll just delay your access to the forum and you'll likely want to change the assigned password again to one of your own choosing.
4. When the forum administrator processes your registration, you'll receive an email from the forum with a link for completing your registration.
5. Type the text you see in the "CAPTCHA" image -- the camouflaged characters that many bots are incapable of reading.
6. In your profile, there is a field in which you can specify a name -- different from your user name -- which will appear in your posts. We ask that you use your call sign and first name here.

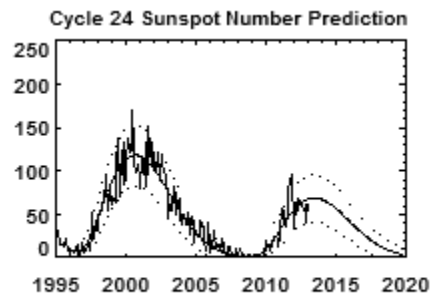
This is enough to get you started if you want to try it out ahead of the meeting. This and more will be covered at the meeting including:

- ◆ Attachments to posts
- ◆ Adding hyperlinks to your post
- ◆ Monitoring selected conversations by email or RSS feed without visiting the forum site
- ◆ Emailing and private messaging other forum members
- ◆ Choosing an avatar

A forum such as this is only as good as its content. We encourage all members to actively participate and to make the forum as integral a part of the Hazel Park ARC as the DART repeater.

SOLAR UPDATE

The NASA Solar Physics Group at the Marshall Spaceflight Center, Huntsville, AL, has just updated its prediction for Sunspot Cycle 24. The peak is now expected in Fall 2013, with a smoothed sunspot number of 69. This remains the weakest cycle since 1906.



MEETING MINUTES—JANUARY 2013

The meeting was called to order by the president, Bill N8QVS at 1930 hours.

There were no license upgrades reported.

The club welcomed Ken Hooper KE4BIO as a visitor and new member.

Bill N8QVS announced that the club has received a letter from Earl Morse N8SS thanking the club for sponsoring the Michigan QSO Party Plaque. Earl mentioned that sponsorship of the plaque is an integral part of the Michigan QSO Party awards program and hopes that our club will continue to support the awards program.

Secretary Report: A motion was made and seconded to accept the minutes of the December membership meeting as published in the Zero Beat Newsletter. The motion passed by voice vote.

Treasurer report was made by Bob KD8AMP. A motion was made and seconded to accept the treasurer report. The motion passed by voice vote.

Club Swap report: We still need 7 more volunteers to man the doors (sell tickets) at the swap. Swap set up is 4:00 PM Saturday 19 January 2013 at Hazel Park High School. We will meet at the Receiving door. The swap is Sunday 20 January 2013 8:00 AM until 12 noon followed by an immediate tear down of the rental tables and repositioning of school property that we used during the swap.

At 2000 hours, Wes AC8JF made his presentation about State QSO Parties. Wes explained that 49 of the 50 United States have a QSO Party each year. Although they are contests, they are held in a much more relaxed atmosphere than the national contests that are sponsored by magazines and are great fun. His presentation also addressed the difference between the smaller and larger states' conduct of the QSO Parties. Wes and Larry K8MU demonstrated how a typical communication exchange would be done during a State QSO Party. Wes' presentation was an excellent event that thoroughly covered State QSO Parties.

A break was held.

ANNOUNCEMENTS:

VE testing is held the first Tuesday of even numbered months in the Oak Park Community Center. Start time is 7:00 PM. For more information about becoming a VE or helping conduct the examinations contact Jerry W9NPI.

There will be a special VE session on 25 January 2013 starting at 7:00 PM in the Southfield EOC (basement of the Parks and Recreation Building).

Thanks to Larry K8MU, the club now has several forums on the internet. See the Zero Beat Newsletter for more information.

There is a repeater test scheduled on Saturday the 19th of January. The test will give the repeater committee a good idea about how the repeater system is operating and help determine what actions if any will be needed to return it to 100% operational status.

USECA is holding their Winter Field Day from noon 26 January until noon 27 January at Camp OZANAM up in the Thumb. More information is available at <http://usecaarc.com/events>

HPARC board meeting is Wednesday 16 January 2013 in the teacher's lounge at Hoover Elementary School starting at 7:00 PM.

All club officers were present at the membership meeting.

Respectfully submitted.

Walt, KD8LWC

CW, CONT'D

(Continued from page 5)

box without a learning curve. For this reason a lot of people tend to shy away from it. Others want to but haven't found a good method yet. Whatever your reason, getting a bunch of like-minded hams together and banging it out together is a great way to learn. There are also a variety of tools available to assist you in learning code.

I would like to put on a class to teach the code to anyone who wishes to learn. But first I need to get an idea of how many people would be interested. Then I can move forward and get us a place, and set up some dates. I will start a thread "Learning CW" on the club forum. Anyone interested, please make a post under that thread, or send me an email to ke8cu@arrl.net. Please include your skill level such as "newbie" or "5 WPM", so I can better plan the curriculum.

STATE QSO PARTY CALENDAR 2013

Here is a list of state/province QSO parties in 2013. This list includes beginning dates only – check QSO Party web sites for full information.

February 2 - Delaware, Minnesota, Vermont, BC

9 - Louisiana, New Hampshire

23 - Mississippi

24 - North Carolina

March 9 - Idaho

10 - Wisconsin

16 - North Dakota*, Oklahoma, Virginia

April 6 - Missouri

13 - Georgia, Montana, New Mexico

20 - Michigan, South Dakota*, Ontario

27 - Florida, Nebraska*

May 4 - 7th District (Arizona, Idaho, Montana, Nevada, Oregon, Utah, Washington, Wyoming)

4 - New England (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont)

4 - Indiana

11 - Nevada* (Mustang Roundup)

June 1 - Alabama

1 - Maritimes (New Brunswick, Nova Scotia, PEI)

15 - West Virginia

July 27 - New Jersey

August 10 - Maryland-D.C.

24 - Hawaii, Kansas, Ohio

September 1 - Tennessee

7 - Colorado

14 - Arkansas*

21 - South Carolina, Washington (Salmon Run)

28 - Texas

October 5 - California

12 - Arizona, Pennsylvania*

19 - Iowa*, New York

20 - Illinois

November 9 - Kentucky*

(No QSO Party) - Alaska, AB, MB, NF, QC, SK, Canadian Territories, months of January and December

* = estimate based on 2012 dates

QSO Party Resources

- ◆ QSO Party Calendar: <http://qsoparty.eqth.net/>
- ◆ Calendar: <http://www.hornucopia.com/contestcal/>
- ◆ Michigan QSO Party: <http://www.miqp.org/>
- ◆ Contest logging software: http://en.wikipedia.org/wiki/Contest_logging_software

AROUND TOWN

HPARC Buddy Breakfast every Saturday @ 9 AM (or so)

Jimi's Restaurant, 714 South Washington Ave, Royal Oak (across from OCC). Lots of spaces in Jimi's parking lot, and street parking is free until 11 AM.

Oakland Co. ARPSC Siren Testing, 1st Saturday @ 1 PM

Will resume in March.

Macomb Community College Electronic Lab

3rd Saturday of each month from 8AM – 12 Noon

12 Mile & Hayes Rd. (Bldg "S" - Room S135) Extensive collection of equipment to use/learn plus a ham radio station to use and a big 3 element HF Yagi antenna on the roof of the building. Hams are invited from all clubs.

H A M F E S T S

2/3/2013 NOARS Winter Hamfest 8-1

VFW Post 1079, 500 South Abbe Road, Elyria, OH
(2.5 hours travel time from Hazel Park)

<http://www.noars.net/>

Talk-In: 146.700 (PL 110.9)

2/17/2013 Livonia ARC Swap-N-Shop 8-12

Civic Park Senior Center

15218 Farmington Rd (at 5 Mile), Livonia, MI

<http://www.livoniaarc.com/index.php?page=swapshop>

Talk-In: 145.35 (PL 100) or 146.52 simplex

2/23/2013 Cabin Fever Hamfest 7-1 CST

La Porte Civic Auditorium

1001 Ridge St, La Porte, IN

(3.5 hours travel time from Hazel Park)

<http://lpcarc.org/hamfest/index.html>

Talk-In: 146.61 (PL 131.8)

2/23/2013 Burlington Spring Flea Market 9-12

Royal Canadian Legion Hall

828 Legion Rd, Burlington, ON

(3 hours travel time plus bridge crossing from Hazel Park, passport or enhanced driver's license required)

<http://www.barc.ca/spring%20fleamarket.htm>

Talk-In: 147.210 (PL 131.8)

Upcoming:

3/16 Marshall, MI

3/17 Perrysburg (Toledo), OH

4/20 Milford, MI

HPARC ZERO BEAT

Mark Your Calendar

NEXT MEETING

NEXT MEETING

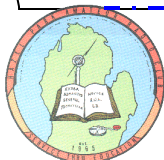
A detailed street map of a neighborhood in Eugene, Oregon. The map shows a grid of streets including W Mapledale Ave, E Garfield Ave, W Browning Ave, W Morehouse Ave, W Annabelle Ave, Steve Fraser Blvd, Hamata Ave, Nasqually, W Sonoma Ave, Hazelcrest Pl, E Felker Ave, and E 9 Mile Rd. A yellow highlighted path runs diagonally from the top left towards the bottom right, passing through Green Acres Park and Manatee Ave. Two blue location pins are placed on the map: one near Green Acres Park and another near Hughes Ave. A large blue arrow points north, labeled 'N'. The map also shows various other streets like Lennox St, Pilgrim Ave, Martin Rd, Orchard Ave, Berdano Ave, Powell Ave, Staubert Ave, Ackenridge St, Wrenston St, Almont St, and Martin Rd.

1 Meeting 2 Swap 3 Picnic

PLACE

Hoover Elementary School
23720 Hoover Ave.
Hazel Park 48030

www.hparc.org



Hazel Park Amateur Radio Club
P.O. Box 368
Hazel Park, MI 48030



Please check mailing label — is your membership about to expire?