

# The Zero Beat

## THIS MEETING

**December 12, 2012**  
**7:30 P.M.**  
 (socializing begins at 7)  
**Hoover Elementary School**  
**23720 Hoover Ave.**  
**Hazel Park 48030**

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## GENERAL MEETING

Each December HPARC members and family gather for our annual Holiday party to share friendship and good times we've had throughout the year. This year our party will take place on Wednesday December 12 at 7:30 pm. The club requests a donation of an unwrapped toy for the Hazel Park School children. This year we're trying something different: pizza AND potluck. (see President's QRM). Hope to see you there!

Anyone wishing to join the club, please go to the website [www.hparc.org](http://www.hparc.org). Fill out the membership form and bring a printed copy to the meeting, then stay for the party. Membership forms can also be filled out onsite before the meeting.

## PRESIDENT'S QRM

December is here, our swap is almost here, and the club's December meeting and party are almost upon us. That will be on December 12, still in the Hoover Elementary school gym, the same as our regular meetings. This meeting is different from all of our other meetings in that the majority of the time is spent in socializing instead of anything else.

I need to remind our members once again that we are still in need of folks to be at then doors and sell tickets at our swap in January. It is not that hard a thing to do, and we never schedule just one person at a door, so there are always a minimum of two club members there. And selling tickets is a lot less work than setting up tables, so don't tell us about your "bad back", OK? It is only an hour, so that leaves lots of time for shopping at the swap. Remember, this is the only fund raising event that our club does, so

come on and support your radio club.

We will have a short business portion of the meeting because we do need to have a few reports and do a little business. We will not have a technical presentation, instead we will be reminded about or project to provide gifts for some less fortunate students in the Hazel Park schools.

One very important thing to remember is that our club supports the school district and Hoover School in their program to provide Christmas gifts for those kids whose families are in bad financial shape. Our club has supported this program for a few years and it is a great way to share some of our good fortune with those not so fortunate, and do it in our own area. Also, it is a good way to say thanks to the school for letting us use the gym for our meetings.

So we are asking each member to bring either an unwrapped gift item or a cash, (or

*(Continued on page 2)*

## OFFICERS

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## VOLUNTEERS

- **Technical Coordinator & W8HP Trustee :**  
Murray Scott  
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Assist Ed Walton N8LBS
- **Meeting Coffee:**  
Bernie Hildebrand W8NBC
- **Donuts:** Rey Bora W8REY
- **Sunday Net:** Bill Ketel  
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John Teagardin, AA8UU  
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- **HPARC Official Cook:**  
Bill Ketel N8QVS
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- **Walk for Babies Chair:**  
Jim K8ABZ [k8abz@arrl.net](mailto:k8abz@arrl.net)

## QRM, CONT'D.

(Continued from page 1)

check) donation, in an envelope, to the December meeting. Checks should be made out to the "Hoover School". Let's do some good for somebody again this year.

Once again, we will be having food, a lot more than donuts, during our greatly extended social "break" time. This year will be a bit different from last year in that the club will be providing both pizza and chicken in addition to pop and place settings, plates, plastic-ware, and napkins. We will be getting a nice tossed salad from our friends at Jimi's in Royal Oak. The rest will be a potluck. Please note the suggested types of choices.

Desserts that can be served on a plate.

Vegetables that would go with chicken.

Ethnic dishes of any variety — if you have a family recipe for something, that would be a great choice.

Something that would go with pizza. I am not sure what that would be.

The list is not very specific because our intention is to leave lots of options available. How much? Enough for a dozen helpings is a good size target. Also, be sure to label the dish so that it will get back to you, and also the serving utensil. Last year we got a nice spoon.

Remember that this is a social gathering and one of the few times when we won't be interrupting the socializing to get back to the meeting.

I always enjoy talking with club members during the break time but it always seems like the break ends too soon. But not at the December meeting.

73 de N8QVS

## CORRECTION

The October and November issues of *The Zero Beat* listed the wrong date for the Hazel Park Hamfest. The correct date is Sunday, 1/20/2013, with setup on Saturday afternoon.

The editor regrets this error. Don't show up a week early!

## 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)

The "Geezer Net" changed their name in memory of Al N8WYO. Look for them every Tuesday night at 8:00 PM on **28.028 MHz**. As always, all amateurs are welcome and encouraged to join this net. 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 (LSB phone) daily at 7:00 PM local time with pre-net starting at about 6:30 PM. The nets start a half hour earlier in winter. You can get details from Joe, K8JRE [joecuchetti@comcast.net](mailto:joecuchetti@comcast.net) or Ed, W8EDE [ed@ellisgen.com](mailto:ed@ellisgen.com).

### Oakland County ARPSC

Every Thursday @ 8 pm on 146.90 (PL 100). Hospital Radio Net on last Thursday of each month during the net. (W8OAK-3 will run packet on 147.56 MHz for those wanting to practice and test their equipment) [www.qsl.net/w8oak](http://www.qsl.net/w8oak)

### 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

## 2012 SIREN NET WRAP UP

By Marsha Fleming N8FE

Congratulations again to all of us! We have not missed a year covering all of our sirens and this year again we went the extra step . . .

Due to fewer volunteers available in the northern areas, the County asked if we could assist testing those sirens after we completed testing ours. I am happy to say that we were able to assist with many sirens during the last three months. The result was that all sirens in Oakland County were checked at least once. Also all "hot sirens" we're checked.

Thanks go to all of the our SE Subnet members who include HPARC, Southfield ARS (SARS) and ARPSC members who live in the area. Some people actually are members of 2 or all 3 groups.

Thanks to everyone for remembering to contact me first to make sure our sirens are covered before volunteering for another section. Communication does work.

A special thanks to Ed N8LBS for another year of being there for me. He has kindly offered to organize the March 2013 Siren Test Net.

Watch for SKYWARN classes and don't forget to sign up.

If you want to volunteer please send me an email at [marsha-fleming@att.net](mailto:marsha-fleming@att.net) with your name, phone number, call sign, and address with city.

73 happy hamming  
 Marsha N8FE

## 73, IRC?

The US Postal Service, beset by funding problems, is cutting back on services. Latest casualty: the venerable International Reply Coupon. While most DX stations accept "green stamps" (dollar bills) for QSL postage, some still insist on IRCs. How this will change is anyone's guess.

USPS says the demand just isn't there to justify further sales of IRCs. If the post office gets its way, it could stop selling IRCs as soon as the end of January. Existing IRCs would still be good to their expiration date, and American hams could still convert IRCs received to postage, though.



## ON-AIR EVENTS

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

12/07 — W5LEX — USS Lexington (CV-16) Pearl Harbor Day, Ingleside, TX. South Texas Amateur Radio Club. 0200-0400Z, 28.485 14.325 14.265 7.275. [www.n5crp.org](http://www.n5crp.org)

12/08-09 — Pearl Harbor Commemoration. W2W Baltimore; NI6IW San Diego; N4WIS Virginia Beach.

12/20-22 — NOD — Doomsday The End of the World! Valley Amateur Radio Club. 0000Z-2359Z, 28.400 21.400 14.200 7.150. QSL KK5W. (*End of the Mayan calendar*)

12/20-22 — W2E — Doomsday 2012, Cookeville, TN. Buck Mountain DX Club. 2200-2359Z, 28.366 14.266 7.266 3.866. Certificate via N4ECW. 7.266 MHz will be manned using a vintage Hallicrafters transmitter and receiver should solid state transceivers become non-functioning.

12/22—WC5C—Day After Doomsday Operation, Azle, TX. Tri-County Amateur Radio Club. 0000-2359Z, 28.340 28.040 14.340 14.040.

## CQ DX

**ZL9 Auckland & Campbell**—An international team will operate ZL9HR from Campbell Island, 52 degrees S, 160-6 meters to 12/09. <http://www.campbell2012.com/>

**5X Uganda**—5X1NH Nick will be active to 12/11, mostly CW. QSL via G3RWF, his home call.

**3B8 Mauritius**—3B8/F1BCS Jacques will operate to 12/14, mainly on 20 and 15 meters.

**5H Tanzania**—5H3NP Noel will operate from Iringa, Tanzania to 12/15 in his spare time. QSL via WB0VGI.

**XU Cambodia**—XU1A will be active 12/05-17 on 160 through 10M. Six JA hams will operate three stations. QSL via JH1AJT.

**5W Samoa**—5W0RK Ralph will be active from Apia, Samoa 12/08-3/1 on 20-10M. QSL via NR6M.

**CY0 Sable Island**—CY0/VE1AWW will be active in December, starting date depending on when the airplane can reach the island. QSL via home call.

Oceania:

E51TLA, Rarotonga, South Cooks, to 12/08

H44MS, Solomon Islands, to 12/09

V63XG, Yap, Micronesia, 12/05-12

9M2MRS, Penang Island, Malaysia, to 12/26

E51E, Aitutaki, South Cooks, 12/10-1/05

H40FN, Nendo, Temotu Province, Solomons, 12/22-1/07

## CONTEST CORNER

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

### December 2012

**8-9 ARRL 10-Meter Contest**

15 Feld Hell Happy Birthday Sprint, Hellschreiber

15-16 OK DX RTTY Contest

15-16 Croatian CW Contest

**16 ARRL Rookie Roundup**

21-1/8 Lighthouse Christmas Lights QSO Party

23 RAEM Contest, CW

29 RAC Winter Contest

**29-30 Stew Perry Top Band Distance Challenge, CW**

### January 2013

**1 ARRL Straight Key Night, CW**

5 PODXS 070 Club PSKFest

5-6 ARRL RTTY Roundup

5-6 EUCW 160m Contest

## LOTW PROBLEMS

Hams using Logbook of the World (LOTW) noticed on November 4 that it was not working. The ARRL said it was “down for maintenance” for 3-1/2 days. When service resumed on November 8, it recovered slowly. The large number of delayed log submissions, in part from the SSB Sweepstakes and the CQ WWDX CW contest, caused a backlog. Several days would elapse until submitted QSOs were available on LOTW.

Then a few amateurs noticed something else: their submissions didn’t get processed by LOTW at all. This led ARRL to discover a bug. When the backlog got too large, some files were silently dropped. A fix was put in place on November 28. ARRL reports it is working.

Where does that leave LOTW users? No data in LOTW’s database was lost. However, users should double-check that all their QSOs made it in. The culprit? For the outage, ARRL hasn’t said. For dropped submissions, it’s a question of capacity. When writing the program, ARRL expected hams to submit logs every week or every month. Instead, some loggers send in data daily or more often. So LOTW ran out of capacity, pure and simple. At the end of November, the backlog was still reported as a few days.

## HUNTING THE ANTARCTIC QSO



Palmer Station, Winter 2006

- Glenn E. Grant, National Science Foundation

By Wes Plouff AC8JF

One night at the end of March, tuning across a dead 20 meter band, I heard KC4AAA coming in weak but clear, holding two-minute QSOs North America. I was fascinated. This was my introduction to Antarctic DX.

Antarctica is not particularly rare, but nothing about Antarctica is simple or easy. This article may help Michiganders make contact with the frozen continent. Maybe it'll help me, too, since Antarctic QSOs have eluded me so far.

Here are some things to take into account.

### Geography

Most of the Antarctica lies south of the Antarctic Circle at 66°S, while the region defined by the Antarctic Treaty covers 60°S to the Pole. Distances from Hazel Park are 7,500 to 11,000 miles, with beam headings ranging from 170° to 210°.

New Zealand and Australia are comparable DX. Good signals from Down Under are rare in my shack. Maybe that's a hint about how hard Antarctica will be to reach.

### Rarity

Historically, amateurs provided communication links to the outside world. Now, due to satellite phones and internet links, most amateur operation is recreational.

In the austral summer, November to March, about 40 callsigns are on the air. In other months, that number shrinks to perhaps 20.

Some awards include the "peri-Antarctic" region, starting at 50°S. This adds more islands and Tierra del Fuego. One can work someone in the tourist town of Ushuaia, Argentina,

for Antarctic award credit. Ships operating /MM in the region count, too.

### Finding Stations on the Air

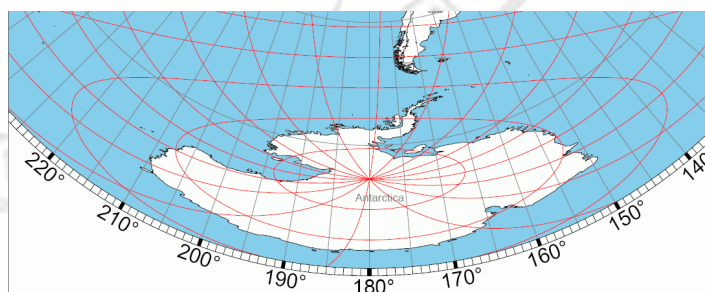
Antarctica hams use many prefixes. Home countries license individuals and "club" stations. Since people come for the summer months or one-year tours, many callsigns are different from year to year.

Since there are no spare people on most Antarctic crews, work can crop up at almost any time. Radio operation happens when hams can grab a spare hour or two.

The usual DX news outlets carry few announcements of Antarctic stations. Better sources are the news page and the *WAP Bulletin*, available at [www.waponline.it](http://www.waponline.it). This site and newsletter collect reports and QRV announcements, often from Antarctic ops themselves. Operators use CW, SSB and various digital modes. DX clusters are not too useful except for spotting specific callsigns, because of the diversity in callsigns.

Listening at specific times and frequencies is a good strategy. Here are suggested frequencies from the WAP

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Beam Headings from Hazel Park to Antarctica

## ANTARCTIC DX CONT'D

**Bulletin:** 14.160, 14.188, 14.203 and 14.243 MHz.

Nets, reported by VA3RJ, are:

**Antarctic Net**, 1600Z Mon, 21.275, by Dom DL5EBE

**Antarctic DX Net**, 2300Z Sat & Sun, 7.078 by LU4DXU

**China DX Net**, 1300Z Sat, 21.410

**FCG Net**, 2200Z daily, 21.365 by JA stations

**Russian Antarctic Polar Net** 1500Z daily, 14.160 by UA1BJ

**South Pole Polar Net** 0000Z daily, 14.243 by Larry K1IED

### Propagation

Propagation to Antarctica is hit or miss. I have not found any sources for published forecasts. Antarctic stations use 20, 30 and 40 meters most, though there's activity on all bands 6 through 160 meters. While a "big gun" DX setup helps make contacts, hams with modest rigs and antennas can QSO when propagation is good.

The best times to listen for Antarctica seem to be late afternoon into evening on 20 meters, when the band goes long, and after dark on 30 and 40 meters. Remember that in austral summer the Antarctic station is always in sunlight. In summer, the aurora does not seem to be a big factor in propagation.

### Confirmation

QSLing presents another challenge. People who go to Antarctica tend to be busy and adventurous. Getting logs to a QSL manager is not their highest priority.

At KC4AAA, KC4AAC and KC4USV, the three American bases, hams normally use the base callsign and QSL via K1IED. However, there is no centralized logging. Each ham keeps his own log that he may or may not send to the manager. One suggestion is to ask such operators for their home calls, so that the QSL manager can find a record of the QSO more easily.

American hams operating /KC4 and hams from other countries QSL through managers or directly after they return home. Good sources for QSL information are QRZ.com and waponline.it.

### Regular Awards

DXCC entities in the Antarctic region are:

Antarctica (CE9), Peter I Is (3Y), South Orkney Is (LU#Z),

South Shetland Is (LU#Z)

South of 50°S, add:

Kerguelen Is (FT#X), Auckland & Campbell Is (ZL9),

Falkland Is (VP8), Heard Is (VK0), Bouvet (3Y), Macquarie Is

(VK0), South Georgia Is (VP8), South Sandwich Is (VP8),

Tierra del Fuego Prov., Argentina (LU#XP-XZ), Magellanes

Region, Chile (CE8)

*(Argentinian and French callsigns do not use the number to designate a district or area.)*

According to N1CL of the ARRL Awards Branch, Antarctica can be counted as a continent for Worked All Continents if one of the others is missing.

### Antarctic Awards

Awards come from three main groups. The Worldwide Antarctic Program offers the WACA and WADA awards.

Mediterraneo DX Club has the Antarctic Award. All three require ten confirmed QSOs based on different callsigns or different regions of the continent. The French Polar Team offers the Antarctic Challenge. This last award is unusual in that any number of contacts qualify.

### Activity Week

February 18-24 is the tenth annual Antarctic Activity Week. This event celebrates amateur activity in Antarctica. Special event stations are active around the world. These special stations can be worked for a certificate. Keep in mind, though, that most of them are *not* in Antarctica. True Antarctic stations may be more active than usual, since by that week the summer season is winding down for many scientists and technicians.

*(Continued on page 7)*



## ANTARCTICA CONT'D

### Calls to Look For

On the air (via VA3RJ DX page and DX World):

**KC4AAA** Admunsen-Scott South Pole Station, all year

**KC4USV** McMurdo Station, Ross Is, all year

**ZL9HR** Campbell Is. DXpedition 2012, now - Dec. 9 (maybe later) - <http://www.campbell2012.com/> (note the propagation predictions at <http://k3el.wordpress.com/>)

**LU4ZS** Base Marambio, now to ?? – QSL via LU4DXU

**RI1ANF** (Oleg) Bellinghausen Base, S. Shetland, now – Dec. 31 – QSL via ZS1ANF or RK1PWA

**RI1ANU** (Oleg) Bellinghausen Base, starting Feb. 28, 2013

**DP0GVN** (Lars) Neumayer III Base, now to Feb. 2013 – QSL via DL5EBE

**VK0JJJ** (Greg) Mawson Station, Feb. 2013 - Jan. 2014 – QSL via VK3ZAZ

**VP8DLB, VP8ML, VP8NO**, others – Falkland Is, permanent residents

**ZS7V** (Adam) SANAE IV Base, end of Feb. 2013 to Feb. 2014, see QRZ.com for QSL info

**GM0HCQ/MM** (Mike) aboard research ship *John Ross Clark*, between British stations Falklands and south, now - April 2013 - <http://www.gm0hcq.com/>

Likely to operate: KC4AAC Palmer Station, Anvers Is

To any HPARC member wanting to work the southernmost hams in the world, good luck!

### ONLINE RESOURCES

<http://www.waponline.it/> - news, awards, activity week

<http://www.mdxc.org/awardantarctica/> - Antarctic Award

<http://www.french-polar-team.fr/index.php> - Antarctic Challenge, news via e-mail

<http://dx-world.net/category/dx-arctic-antarctic/> - DX news

<http://www.qsl.net/va3rj/dx.html> - tracks Antarctic DX, has good links, not always timely

[http://en.wikipedia.org/wiki/Amateur\\_radio\\_call\\_signs\\_of\\_Antarctica](http://en.wikipedia.org/wiki/Amateur_radio_call_signs_of_Antarctica) - prefixes in use

[http://www.lib.utexas.edu/maps/islands\\_oceans\\_poles/antarctic\\_region\\_pol\\_2009.pdf](http://www.lib.utexas.edu/maps/islands_oceans_poles/antarctic_region_pol_2009.pdf) - map showing largest bases

<http://antarcticsun.usap.gov/> - Antarctic Sun newspaper

<http://craighayhow.blogspot.com.au/> - VK0JJJ's blog

## WANT AD

I have the following equipment for sale. All except the Kenwood handheld are in like new condition with original boxes and accessories.

- Kenwood TS-570D HF Transceiver. Modes: USB, LSB, CW, AM, FM, FSK. 10.6"W x 10.6"D x 3.8"H 100W
- Kenwood SP-23 Communications Speaker
- Astron Power Supply RS-20M 16 Continuous Amps; 20 ICS Amps
- MFJ Power Supply 4035MV 30 Continuous Amps; 35 Surge Amps
- Vibroplex Chrome Iambic Deluxe Key
- Kenwood Dual Bander Mobile TM-G707A; Removable face; mounting bracket; all wiring
- Kenwood Handheld FM Transceiver TH-215A; Unknown condition; 2 batteries, but no charger
- MFJ Pocket Morse Code Tutor MFJ-418
- MFJ Speaker/Microphone MFJ-286
- MFJ Code Practice Oscillator MFJ-557
- Archer Dummy Load Model 21-506
- MFJ 12-24 Hour Dual LCD Clock MFJ-108B
- Three 2M Magnetic Base Antennas

I will only sell the entire lot for \$900. Contact Craig Rifel KC8LIU at [crifel@comcast.net](mailto:crifel@comcast.net) or (248) 398-1298 and leave message.

## FIELD DAY SCORE

Results are in for Field Day 2012. Our score of 7,028, while slightly less than last year, put us 10th in the nation in Class 5A. 29 club members participated.

To all who came out for setup and teardown, kept all the stations on the air, and racked up the contacts, thanks for your hard work. Congratulations for a job well done!

**Welcome New Members**

**Jon Benavides, KE8CU**

**Ted Huff, KF8WR**

## MEETING MINUTES—NOVEMBER 2012

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

Introduction of members and guests was conducted. We had one guest, Mrs. Sandi Begel, XYL of Jerry W9NPI.

The club members present voted to accept and welcomed two new members: Ted Huff KF8WR and Jon Benavides KE8CU.

There were no new or upgraded licenses to announce. Bernie W8NBC requested a volunteer to be assistant chairman of the club Swap meet. Swap meet will be held on 20 January 2013 at Hazel Park High School.

Our monthly presentation was presented by Jerry W9NPI. The presentation was about early methods of generating Radio Frequency Waves and was titled "The Singing ARC... and other unconventional methods of generating RF." Besides covering the ARC method of generating radio frequency waves, Jerry also discussed the use of large generators and alternators to produce radio waves. An interesting side note about the early transatlantic cables and their associated successes and failures was included. Like all of Jerry's presentations, this one was very well researched, followed a logical sequence, included multi-media aids and was delivered in a professional manner.

### ANNOUNCEMENTS:

DX Contacts/Contests: CW Sweepstakes was last weekend; Phone sweepstakes is this coming weekend.

Field day will be the last full weekend in June 2013. We will have the Hazelwood site starting Friday evening for set up.

HPARC swap will be held on January 20, 2013 at Hazel Park High School. Still need volunteers.

Secretary report: Motion made and seconded to accept the minutes of the October meeting as published in the Zero Beat Newsletter. Motion passed by voice vote.

Treasurer report was made by Bob KD8AMP. Motion made and seconded to accept treasurer report. Motion passed by voice vote.

Break was held.

### ANNOUNCEMENTS Continued:

December Meeting/Holiday Party was mentioned. Please bring a new and unwrapped toy or a cash donation. Hazel Park Schools will distribute them to needy students. Also please bring a dish/dessert to pass. Club will provide pizza and pop.

Question about interest in Fox Hunting was posed. Several members expressed interest, but none volunteered to take on the project of organizing a Fox Hunt.

L'anse Creuse ARC Swap is Sunday 2 December 2012. They are providing a club table for us in case anyone has items to sell or trade.

Member health and welfare: Don W8PDI continues to improve and can now walk with help. Rey W8REY has undergone heart cath and stent emplacement and is recovering

well.

New member Jon KE8CU volunteered to be the Net Control Officer for the next Sunday night 2 meter FM Net. Bernie W8NBC has volunteered to take the net control for 25 November 2012. If you would like to try your hand at Net control in a very low pressure net environment, contact the net manager Walt KD8LWC.

Motion made and seconded to adjourn at 2050 hours. Meeting adjourned at 2050 hours.

All club officers were present at the meeting.

Respectfully submitted.

Walt, KD8LWC

## AROUND TOWN

### HPARC Buddy Breakfast every Saturday @ 9:30 a.m.

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

### Oakland Co. ARPSC Siren Testing, 1st Saturday @ 1 p.m.

Will resume in March.

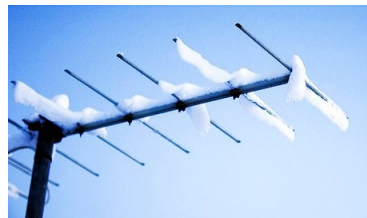
### Macomb Community College Electronic Lab

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.

### Hamfests

No more hamfests in December.

Next hamfest is **Hazel Park** on 1/20/2013!





# HAZEL PARK AMATEUR RADIO CLUB 47th ANNUAL HAMFEST

Hazel Park High School - 23400 Hughes - Hazel Park, Michigan 48030

**January 20, 2013** - 8:00 AM til 12:00 NOON  
**W8HP** - Talk-in 146.640(100hz.pl) D.A.R.T. Repeater  
 Tables \$15.00 TICKETS \$5.00 Plenty of Free Parking  
 Vendor Setup : 6AM WITH PAID ADMISSION



23400 Hughes • Hazel Park, MI

PRIZES	
1ST	
CASH PRIZE	\$100.00
2ND	
CASH PRIZE	\$50.00
3RD	
CASH PRIZE	\$25.00



E-mail Address: W8NBC@arrrl.net

Phone: Bernie Hildebrand 248-506-3502 Web Site: WWW.HPARC.ORG

## Tickets and Table Reservation Mail-in Coupon

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone( ) \_\_\_\_\_ Email \_\_\_\_\_

Tickets \_\_\_\_ x \$5.00 \_\_\_\_ Tables \_\_\_\_ x \$15.00 \_\_\_\_ Enclosed \$ \_\_\_\_

MAIL TO: H.P.A.R.C. INC. SWAP, P.O. BOX 368 HAZEL PARK, MI 48030

*TO RESERVE PREVIOUS YEAR'S LOCATION,  
TABLE RESERVATIONS MUST BE RECEIVED BY JANUARY 9, 2013*

## Mark Your Calendar

## 2012 DATES

December 12

## 2013 DATES

## January 9

## January 20 — Swap @ HS

February 13

## March 13

**April 10**

May 8

## TIME

## Socializing @ 7:00 PM

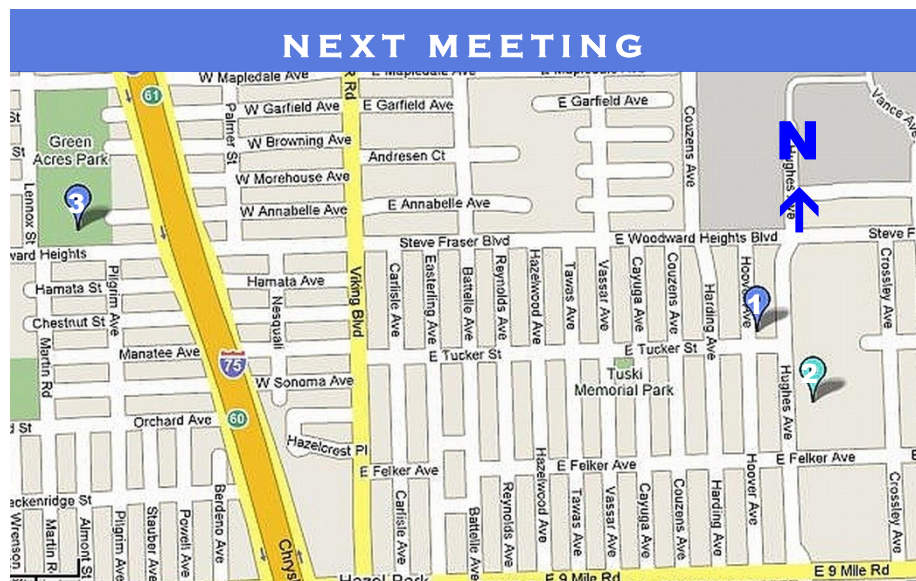
Meeting @ 7:30 PM

## PLACE

Hoover Elementary School

23720 Hoover Ave.

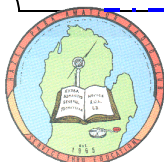
Hazel Park 48030



**1 Meeting      2 Swap      3 Picnic**

## We're on the Web

[www.hparc.org](http://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?**