

The Zero Beat

THIS MEETING

December 10, 2014
7:30 P.M.
Hoover Elementary School
23720 Hoover Ave.
Hazel Park, MI 48030

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GENERAL MEETING

The next meeting of the Hazel Park Amateur Radio Club will be held on Wednesday, December 10, at 7:30 PM. The meeting location is Hoover Elementary School, 23720 Hoover Ave, Hazel Park. This month is our annual Christmas Party, with supper provided by the Board of Directors. Don't expect the business meeting to last more than a few minutes. This is an event where we can relax and enjoy the company of fellow HPARC members, and celebrate with a bit of early holiday cheer. Everyone is welcome including spouses and families.

All of the main meal will be catered, so don't bring the usual potluck dishes. Instead, if you wish, bring a homemade dessert. The club asks that everyone coming to the meeting bring an unwrapped toy suitable for an elementary school child, costing \$10 or less. If you wish to make a donation instead, please make out checks to: Hoover Elementary School.

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 would like thank the club board who in their infinite wisdom, decided to affirm me as President of the Hazel Park Amateur Radio Club Inc. After a timely discussion, I finally convinced the board to vote for me.

With my new position, I will also continue as 1st Vice President. This is an economic decision by me because now there are only 6 board members to pay, and I won't be asking for a raise.

Moving on; the holiday meeting is this month, the plans are going well. Barb KD8SAA has a good handle on the meal for the evening. Members are asked to have their wives bring their dessert creations to be tested on our members.

Reminder that **unwrapped** gifts and

toys you bring are for children ages 5 to 10 years and suggesting not exceed \$10.

Checks can be written to: Hoover Elementary School.

For the swap, we have the permit to use the Hazel Park High School and in the next few weeks preparations will become busy. We will need door cashiers for 2 entry doors. Please contact Barbra, KD8SAA (she is good in the roster) to be assigned a time slot.

With the new policy of newly licensed Hams given the first year membership free, it seems to me that there will be new members that will have many questions and looking for answers. On the application, checking the box indicated your desire to Elmer. The board decided that an Elmer will be assigned to

(Continued on page 2)

OFFICERS

- **President:** Jim Poehlman
K8ABZ 248-310-0086
k8abz1@gmail.com
- **1st VP:** Jim Poehlman
K8ABZ 248-310-0086
k8abz1@gmail.com
- **2nd VP:** John Teagardin
AA8UU aa8uu@arrl.net
- **Secretary:** Bill Ketel
N8QVS 248-544-2452
wkettel2@wowway.com
- **Treasurer:** Bob Lauer
N8REL 248-652-4211
rlau6@aol.com
- **Director:** Barbra Hildebrand KD8SAA
barbrahildebrand@yahoo.com
- **Parliamentarian:**
Ed Walton N8LBS
248-649-5851
waltoned@sbcglobal.net

VOLUNTEERS

- **Technical Coordinator & W8HP Trustee :**
Tony Gallucci N8VR
248-417-9740
n8vr@arrl.net
- **W8JXU Trustee:**
Bill Ketel N8QVS
- **Education/VE Testing:**
Jerry Begel W9NPI
w9npi@comcast.net
- **Contest Mentors:**
Mike WD8S wd8s@arrl.net
Gerry K8GT k8gt@arrl.net
- **Public Information Officer:**
Jerry Begel W9NPI
w9npi@comcast.net
- **LoTW Manager:**
Murray Scott KE8UM
ke8um@arrl.net
- **Newsletter:**
Wes Plouff AC8JF
ac8jf@arrl.net
- **VUCC/WAS Awards Card Checker:** Sean Fleming
K8KHZ k8khz@yahoo.com
- **Siren Tests:**
Marsha Fleming N8FE
248-542-9573
Assist Ed Walton N8LBS
- **Meeting Coffee:** (open)
- **Donuts:** Rey Bora W8REY
- **Sunday Net:** Bill Ketel
N8QVS 248-544-2452
wkettel2@wowway.com
- **Banquet:** Rey Bora W8REY
rey62@aol.com
- **Field Day Chair:**
John Teagardin, AA8UU
aa8uu@arrl.net
- **HPARC Official Cook:**
Bill Ketel N8QVS
- **Swap:** Swap Chair
Barbra Hildebrand KD8SAA
barbrahildebrand@yahoo.com
- **Holiday Party:** The Board
- **Webmaster:** Larry Koziel
K8MU k8mu@amsat.org
- **Oak Apple Run Royal Oak:**
Mike WD8S
- **MS Walk Chair:**
Phil AA8KR 586-838-4139
- **Walk for Babies Chair:**
Jim K8ABZ
k8abz1@gmail.com

SIREN NET RECAP

Thanks to everyone for a fantastic Siren Testing season. The SE Subnet tested all of our sirens plus we were able to assist the other subnets test some of those that would not otherwise have been covered. All this even though we had several cancelled siren tests due to bad weather. Kudos to all for a great job.

We have a short break for the winter until first week of March when we start all over again.

I am accepting new volunteers. All you need is a mobile radio and the willingness to travel within the county. All you need is a mobile radio and the willingness to travel within the county. The sirens are tested the first Saturday of every month at 1300 local time (except in April it is tested the 2nd Wednesday). To properly report the siren you must physically see the siren installation and hear the siren go off. Check in for the net starts approximately at 1230 as people travel to their siren locations.

If you are interested to be put on the list, please email me with your name, Call, address, email address, City, cell phone, type of 2m/440 radio equipment, are you ARPSC member? HPARC member?

Thanks.

73,

Marsha N8FE

QRM, CONT'D

(Continued from page 1)

new members. In addition, I expect club members to approach new members and visitors to converse and make them welcome and comfortable. This is part of this club is about, friendly.

The Sunday net is every week at 9:00 pm and is a good place to get information about club activities; also a good place to ask questions.

See you at the meeting, Wednesday the 10th.

Jim Poehlman K8ABZ
President.

ANNOUNCING WINTER LICENSE CLASSES

By Jerry Begel W9NPI

HPARC is pleased to announce that study classes will be held this winter, in cooperation with Lawrence Technological University, to prepare for FCC exams for all classes of amateur radio license: Technician, General and Extra.

General Class (14 weeks)

When: Mondays, January 12 to May 4, 2015 7-9 PM

Where: Buell Management Room M-211

Registration Deadline: December 29

Extra Class (14 weeks)

When: Mondays, January 12 to May 4, 2015 7-9 PM

Where: Engineering Building Room E-200

Instructor: Ron Miotke WD8MNX

Registration Deadline: December 29

Technician Class (12 weeks)

When: Mondays, February 9 to April 27, 2015 7 to 9 PM

Where: Room TBA

Registration Deadline: January TBA

Details for All Classes

Pre-registration is necessary. Contact Jerry Begel, HPARC Education Coordinator, at W9NPI@arrl.net.

Classes are held on the Lawrence Tech campus, 21000 West Ten Mile Rd, Southfield 48075 (near Lahser Rd).

There is no fee for instruction; license study manuals are \$25, available from the instructor at the first session.

License exams will be held at the final session, fee \$15. Students passing the exam will obtain FCC Amateur Radio licenses.

These classes are sponsored by the LTU Department of Electrical and Computer Engineering and the Hazel Park Amateur Radio Club.

WINTER FIELD DAY

Hams who are really, really enthusiastic about Field Day can do it again, this time in cold weather. SPAR is sponsoring the Winter Field Day contest from noon EST on Saturday, January 24, until noon the next day. WFD rules are simpler than for summer Field Day, with bonus points for using emergency power, operating away from home and (brrr!) operating outdoors. For more information see: <http://www.spar-hams.org>.

The USECA club will operate – indoors – from Camp Ozanam, south of Port Sanilac in the Thumb, about an hour and forty minutes from Hazel Park. Small fees will be charged for food and use of the camp facilities. If interested, contact Pete Matejcik AA8GK at aa8gk@arrl.net.

YOTA MONTH

In December, 37 Youngsters On The Air special event stations will be on the air all month, using a callsign suffix of "YOTA," for instance, G14YOTA and ON4YOTA. All but two stations are located in IARU Region 1, comprising Europe, Asia and Africa. To encourage participation, a December YOTA Month Award will be available for several levels of contacts. Find more information at:

<http://www.ham-yota.com/december-yota-month/>

YOUTH NETS ON THE DART REPEATER

I will be connecting The DART to various Youth Nets on a regular basis through Echolink and hopefully posting them on the APRS Network as well. This will help promote the DART as a family friendly repeater for our area, as well as providing an opportunity for you all to help bring new people into the hobby!

Yacht Net, Saturday night, 8 PM EST. This is run by Ed Engleman KG8CX in Menominee, MI. Homepage:

<http://yachthams.webstarts.com>

Thursday Night Youth Net, 8 PM EST. Kendra KF5FYS and Abbi KF5BEW run this net from Lafayette, LA, and were featured on Ham Nation recently.

So, come one, come all. Go ahead and take a listen.

73,

Phillip N8AYE

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 the 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.

AROUND TOWN

HPARC Buddy Breakfast every Saturday @ 9:30 AM (or so)

Jimi's Restaurant, 714 South Washington Ave, Royal Oak (across from OCC). Come for the socializing — we're in the back room. Parking: 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

Resumes in March.

Macomb Community College Electronic Lab

4th Wednesday of each month from 7-10 PM. 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.

Amateur Radio License Testing

HPARC and the City of Oak Park offer amateur radio license testing on the first Tuesday of even months at the Oak Park, Michigan Community Center (14300 Oak Park Blvd, Oak Park, MI 48237) beginning at 7:30 PM



W1AW PORTABLE SCHEDULE

W1AW is celebrating the ARRL Centennial year by operating portable in all 50 states and many US territories. QSOs count 5 points toward Centennial QSO Party scores. This is the last month, so contact those missing states!

QSL by LOTW is encouraged. Paper QSLs are available two different ways. ARRL headquarters will reply to your QSL sent along with an SASE, or members can opt for bureau cards. See: <http://www.arrl.org/centennial-qso-party#QSLs>. ARRL says that sending out QSLs could take a while, and has not announced a timetable for bureau

QSLs. Although some hams make many contacts with each state on different bands and modes, QSLs will be limited to one per state per week, or 107 maximum sent to any given call sign.

December

1-2 Delaware, Louisiana, Puerto Rico (/KP4)

3-9 Illinois, Maine

10-16 Indiana, Montana

17-23 Georgia, Hawaii, Maryland

ARRL TEACHERS WORKSHOP

By Tuyen Duddles KD8YZK
and Mark Supal KD8YZL

Tuyen Duddles KD8YZK and Mark Supal KD8YZL, science teachers in the Warren Consolidated Schools district, attended a Teachers Institute workshop sponsored by the American Radio Relay League (ARRL) back in June 2014. Tuyen teaches 6th and 7th grade science at the Middle School Math Science Technology Center (MS²TC). Mark teaches a technology, engineering and computer programming class at the Macomb Mathematics Science Technology Center (MMSTC).

The course, titled "Introduction to Wireless Technology," was held at the Dayton Amateur Radio Association (DARA) headquarters in Ohio. The four day, expense paid professional development seminar provides teachers from elementary school to the university level with education on topics such as basic electronics and soldering, AM/FM radio concepts, radio direction finding and using a micro-controller in a moving robot. The informative workshop was taught by Tommy Gober N5DUX.

for Tuyen and Mark, interest in ham radio operation began back in the fall of 2013 when they submitted a proposal to NASA for an opportunity to communicate with the International Space Station (ISS) via a direct amateur radio contact. They were notified in December 2013 that their proposal had been selected for a 10-minute direct radio contact with the ISS. On average only 25 to 30 U.S. schools per year get this opportunity. ARISS is a cooperative venture of NASA, the ARRL, AMSAT, and other worldwide amateur radio groups and space agencies.

With the guidance and assistance of many members of the Hazel Park Amateur Radio Club (HPARC), the necessary antenna equipment was installed on the roof of the school and routed through hundreds of feet of cable to the school's auditorium. Not even last year's Polar Vortex was able to prevent Larry Koziel K8MU, John Teagardin AA8UU, Mark Supal and others from climbing to the roof of the building to make all the necessary electronic connections in preparation for the scheduled March 2014 contact.

The school's auditorium was packed with over 300 middle and high school students, and with local reporters. Larry K8MU took the stage to initiate the contact and for a



Newly licensed hams Mark KD8YZL and Tuyen KD8YZK at DARA just after passing their exams. Courtesy Tuyen Duddles KD8YZK.

brief moment an astronaut's voice was heard. Suddenly the voice faded and stopped. Larry feverishly attempted to re-establish contact as the ten minute "window of opportunity" began to pass. The crowd was dead silent; you could hear a pin drop. Over and over again, "... this is K8MU" Then, out of the blue and in a very loud and clear voice came, "... this is Koichi Wakata." How? It was merely a slip on the transceiver tuning dial!

Twenty students were able to ask questions to Commander Wakata of the ISS as it soared over the sky at over 17,000 mph. Thanks to members of HPARC, the event is now remembered as the most awe-inspiring and educationally impressive event for all who attended. This was the source of inspiration for Tuyen and Mark to continue their understanding of ham radio operation and how to bring it into the hands of the students at MMSTC and (MS)²TC.

To reach their goal, not only did Tuyen and Mark gain essential knowledge in radio operation basics at the summer workshop, but they also studied during the evenings to obtain FCC Technician licenses. The exam covered basic regulation, operating practices and electronic theory with a focus on VHF and UHF applications. The necessary books were provided by ARRL and within them were many practice exams. Tuyen and Mark quizzed each

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HOLIDAY GIFTS FOR HAZEL PARK HAM

Editor's Note: Give a copy of this page to Santa.

Confused about what to get that radio ham in your life? As a public service, the Zero Beat is making this list of ideas for holiday gifts available to spouses, family and good friends. These suggestions are less expensive than that \$3000 radio transceiver your ham would like, and more pleasing to the eye than that big tower he or she is planning for the back yard.

1. The lighter side. *Hi Hi – A Collection of Ham Radio Cartoons* features gentle ham radio humor with an emphasis on CW (Morse code) operation. \$10.95 plus shipping from <http://www.k9ya.org/w9cbt/>, or follow links to Lulu Press.

2. Ionospheric propagation forecasts. The K6TU propagation service offers personalized forecasts in an easy-to-use format for \$29.99 per year. While there's no guarantee your ham will make those elusive contacts halfway around the world, timely information can certainly increase the chances for success, and reduce frustration. <http://k6tu.net/>

3. Lighted call sign plaque. Personalize your ham's "shack" with this Project GM wood and acrylic sign carved with his or her own call sign. Discreet LED lighting makes the plaque fit right in atop your ham's electronic equipment. Several models, \$30 to \$50 from <http://projectgm.com/>

4. The ARRL Handbook. The *ARRL Handbook for Radio Communications* is the "radio amateur's bible." Chock full of operating and technical information, as well as antenna, electronic and station construction projects. If your ham has a copy more than a few years old, it's worth getting this year's update. \$49.95 from <http://www.arrl.org/shop/>.

5. Yamaha CM500 headset. For long-term operating, this headset, with built-in boom microphone, is hard to beat at twice the price. Gives you peace and quiet; gives your ham good audio quality and comfort while leaving hands free for other tasks. About \$55 from Amazon, Guitar Center, also from gaming and electronics stores – shop around. Your ham will probably want an adapter cable and footswitch to mate this headset with his or her equipment.

6. Hazel Park ARC jacket. Your ham can be resplendent wearing club colors to meetings and hamfests. About \$40-50. Order from Barbra Hildebrand, barbrahildebrand@yahoo.com.

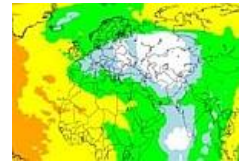
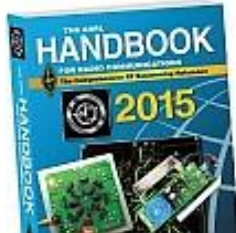
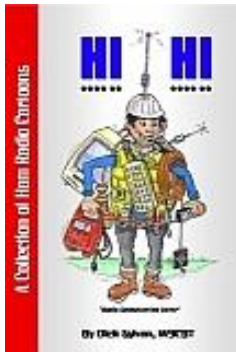
7. QRP transceiver kit. The Ten-Tec Model 1340 3-watt transceiver, CW (Morse) only, is small enough to operate almost anywhere. Together with battery pack, key and wire antenna, it fits in a small enough bag to carry to the park or the beach. Guaranteed to get your ham outdoors. \$124 from <http://www.tentec.com/categories/Kits/>

8. Signalink USB Digital Communications Interface - Your ham can start using digital communication modes such as PSK31 and RTTY through his rig and PC, without adding clutter! The Signalink USB gathers all the interface electronics into one small box and all the wiring into two cables. Only the order process is messy! About

\$110 from <http://www.dxengineering.com/>. Order the main unit plus one radio cable and one jumper module for your ham's radio model.

9. YouKits FG-01A Antenna Analyzer - Does your ham like to build antennas? The YouKits FG-01A simplifies the sometimes frustrating job of adjusting antennas for best performance. Rechargeable batteries and a color graphic display help your ham make short work of backyard tweaking sessions. \$199 from <http://www.tentec.com/fg-01a-antenna-analyzer/>

10. Begali Blade Morse code key. Send effortless CW all day long with this Ferrari of "straight keys." Sleek Italian styling makes this key a standout at the operating position, while precision craftsmanship prevents fatigue even after hours of use. Truly a joy to look at and a pleasure to operate. Only €198, or about \$245, from <http://www.i2rtf.com/html/blade.html>



C O N T E S T S

December 2014

5-7 ARRL 160-Meter Contest

6 TARA RTTY Melee

6-7 ARRL EME Contest

6-7 TOPS Activity Contest

7 Ten-Meter RTTY Contest

13-14 ARRL 10-Meter Contest

20 OK DX RTTY Contest

20 Feld Hell Sprint

20-21 Croatian CW Contest

21 ARRL Rookie Roundup, CW

27 RAC Winter Contest

27-28 Stew Perry Topband Challenge

28 RAEM Contest, CW

January 2015

3-4 WW PMC Contest

3-4 ARRL RTTY Roundup

3-4 EUCW 160m Contest

10-11 North American QSO Party, CW



W A N T A D

For sale from the estate of Bernie Hildebrand W8NBC: HF and VHF transceivers, microphones, keys and station accessories. Many items were sold at the USECA Hamfest but many remain. For details please contact Barb Hildebrand at barbrahildebrand@yahoo.com or phone (586) 222-6348.

H A M F E S T S

12/06/2014 Fulton County ARC Winterfest 8-1

Delta Memorial Hall, 401 Main St, Delta, OH
(about 20 miles west of Toledo)

<http://k8bxq.org/>

Talk-in: 147.195

12/07/2014 L'anse Creuse Hamfest 8-12

L'Anse Creuse HS, 38495 L'Anse Creuse Rd, Harrison Twp
(near I-94 and Metro Parkway)

<http://www.qsl.net/n8lc/swap.htm>

Talk-in: 147.08 (PL 100)

Upcoming

1/11/2015 Hazel Park Swap

2/15/2015 Livonia Swap-N-Shop

C L U B A P P A R E L

HPARC jackets are once again available. These stylish and colorful garments let everyone know you are a proud member of the Hazel Park Amateur Radio Club. For details and pricing contact Barb Hildebrand KD8SAA at barbrahildebrand@yahoo.com.

Details will also be in a future issue of the *Zero Beat*.

S W E E P S T A K E S R E M I N D E R

Don't forget to send your Sweepstakes log to HPARC. The club will purchase awards for members who are participants: a pin for making at least 100 contacts in the CW or SSB contest, and a coffee mug for a Clean Sweep of all sections. Sweepstakes awards are presented at the annual club banquet in June.

Send your log file to John Teagardin AA8UU via e-mail at aa8uu@arrl.net, or mail him a copy of your paper summary sheet. Deadline is December 15.

S U N D A Y N I G H T N E T C H E C K - I N S

The check-in list will resume shortly.

MEETING MINUTES – NOVEMBER 2014

Officers present: W8NBC, K8ABZ, AA8UU, N8QVS, N8LBS, KD8SAA, N8REL

Call to order at 7:25 (school clock time)

Our five new licensees stood up and were welcomed into the club. These are the folks from the license class who benefit from getting the first year membership for free after they pass the test .

Introductions: We had a total of 43 attending.

Treasurers report, Bob, N8REL: We are in a deficit spending mode this month, but that is OK. We are above water doing OK overall. Bob followed that report with details about our non-profit organization status.

Minutes of the October meeting: Since most had not read the minutes due to late arrival of the ZB, approval will be sought at the next meeting.

The technical presentation by Reuven Z. Gevaryahu, KB3EHW, about digital audio and voice coding in amateur radio communications. This included a development of why more efficient encoding methods have been constantly sought after, and how wideband voice can be sent

through narrowband digital modes. Not as easy as it sounds. Also Reuven gave an explanation of D-Star and other systems that actually made sense.

Break: This time we did not suffer from the donut pigs.

Barb, KD8SAA thanked the club members for their support when she lost Bernie. We do stick together and support each other.

Gerry, K8GT, announced the several sweeps and contests that are coming up in the near future, and mentioned some interesting DX activity.

Paul, AA8OZ announced some materials giveaway.

Additional announcements by several others about upcoming ham radio events that are not our club activities.

Dan, KD8SBJ made an announcement about a radio being given away.

The meeting was adjourned.

SWAP FLYERS ARE AVAILABLE! Please take some and post them .

William Ketel N8QVS

TEACHERS, CONT'D

(Continued from page 5)

other repeatedly over meals, and studied during any free time in class. Both realized how important it was to pass the exam in order to possibly establish a radio club at their schools. The exam was administered at DARA on one of the last evenings of the workshop. The 30 question exam was much like the practice material and both Tuyen and Mark passed.

Currently, Tuyen and Mark are exploring how to establish a radio club for the middle school students, and perhaps a radio station. Over the next couple of months they will be working with students from both the middle school and high school to write software to communicate with a satellite through ArduSat. ArduSat is an education technology company that provides the unique opportunity to connect the classroom to the universe!

Tuyen and Mark both view ham radio as an excellent science, technology, engineering and mathematics (STEM) activity to help bolster science and math standards throughout America.

WELCOME NEW MEMBERS

Andrew Biggs, KD8ZPX

Deno Garzolini, KD8ZXY

Don Petrow, WA8E

Greg Purkey, KD8ZTY

Michael A. Scarchilli, KD8ZVS

Kevin Scheid, KD8ZVO

HAZEL PARK AMATEUR RADIO CLUB 49th ANNUAL HAMFEST

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

January 11, 2015 - 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: bernieah@hotmail.com

Phone: Bernie Hildebrand 248-499-2075 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 4, 2015***

MARK YOUR CALENDAR

2014 MEETINGS

December 10

2015 MEETINGS

January 14

February 11

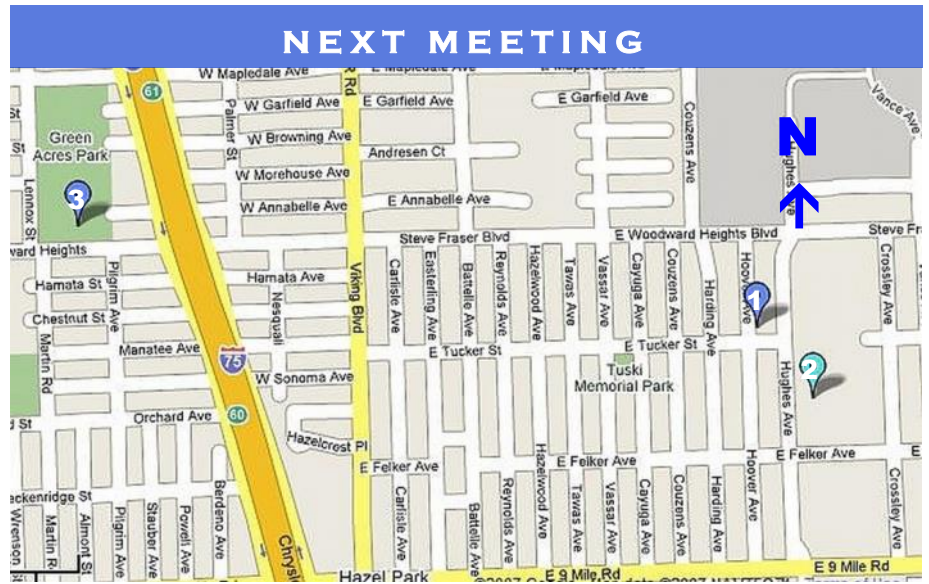
TIME

Socializing @ 7:00 PM

Meeting @ 7:30 PM

PLACE

Hoover Elementary School
23720 Hoover Ave.
Hazel Park 48030



1 Meeting 2 Swap 3 Picnic



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



Scan this QR code to visit the HPARC web site

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