

The Zero Beat

THIS MEETING

September 9, 2009
7:30 P.M.
 (socializing begins at 7)
Hoover Elementary
23720 Hoover Ave.
Hazel Park 48030

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WELCOME BACK

The kids are back in school and fall has arrived. Our first meeting will be on September 9 our usual time and place. Dave K8TRF has brought us a fine presenter in Dr. Patrick Seitzer WA4DSR. Patrick is an Associate Research Scientist in the Dept of Astronomy at the University of Michigan. He specializes in the study of star clusters, and more recently, artificial space debris.

After receiving his Ph.D. in astronomy from the University of Virginia, he held staff positions at the Cerro Tololo Inter-American Observatory in Chile, the Kitt Peak National Observatory in Arizona, and the Space Telescope Science Institute in Maryland before moving to the University of Michigan. His presentation is titled "Space Debris: When Good Satellites Go Bad"

We had a great Field Day and Picnic. I know you all have stories from over the summer. I can't wait to hear yours. Come to the meeting and bring a friend or two.

PRESIDENT'S QRM

Wow, September already! Welcome back to our regular meeting season.

Dave, K8TRF has lined up a great program for our September meeting so you won't want to miss it. See details elsewhere in the Zero Beat.

We had fun this summer. We pulled off a successful field day in June. You know it was good because we went to a new location at Green Acres Park on short notice like we would do for an emergency operation. This is what field day is supposed to be for, practicing for emergencies. We learned a lot. We may go back to the same location next year. Let the board know what you think. We had a lot of visitors, they outnumbered club members. Then in August we had the annual club picnic also at Green Acres Park. The food was great and we could not have

asked for better weather. It was good times so don't miss it next year.

W8HP and W8JXU are now both on Log Book of the World (LoTW). The 2009 field day logs have been uploaded and we have about a third confirmed. Now I am looking for all past logs for W8HP and W8JXU. If you have them in ADIF format from a logging program I can upload them direct. If not I will take them in any format even paper. This will bring in some nice awards for the club and help other hams.

HPARC ham of the year: I need everyone to let me know who has received this award in the past and which year. If you don't know the year let me know anyway. Those who received the award have the year on their plaque. We need to make a list, as you are only eligible for this award once.

(Continued on page 2)

OFFICERS &
VOLUNTEERS

- **President:** Murray Scott
KE8UM@arrl.net
- **1st VP:** Jim Poehlman
K8ABZ@arrl.net
248-398-0086
- **2nd VP:** Dave K8TRF
248 280-0385
k8trf@arrl.net
- **Treasurer:** John Fleming
K8UP 248-542-9573
john@fleming-photo.com
- **Director:** Rich KC8WPW
586-264-5035
shadowru@comcast.net
- **Secretary:** Jerry Begel
W9NPI 248-543-2284
afcsman@comcast.net
- **Parliamentarian:** Mike
Van Buren WD8S
wd8s@arrl.net
- **Newsletter/PIO:** Marsha
N8FE n8fe@arrl.net
- **Classes:** Rich KC8WPW
kc8wpw@arrl.net
586 264-5035
- **Swap:** Mike Van Buren
WD8S wd8s@arrl.net
- **Technical Coordinator:**
Murray Scott
KE8UM@arrl.net
- **VE Testing:** Dee Flint
N8UZE n8uze@arrl.net
- **Contest Mentors:**
Mike WD8S
wd8s@arrl.net
Gerry K8GT
k8gt@arrl.net
- **Sunday Net:** Bill Ketel
N8QVS 248-544-2452
wketal2@wowway.com
- **50/50 & Donuts:**
Rey Bora KD8FVN
- **Field Day :**
John Teagardin, AA8UU
aa8uu@arrl.net
- **Banquet,**

NETS

Oakland County Amateur Radio Public Service Corp (ARPSC)

Every Thursday @ 8 pm on 146.900 MHz/100pl. 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

Sunday Night 2-meter Phone Net

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

NTS Traffic Nets

the Southeast Michigan National Traffic System (NTS) net Normally held every night at 10:15 PM local time on 145.33. Net manager is Diane, W18K.

Rocking Chair Net

Hazel Park ARC Nightly 2 meter rag chew net meets on 145.630 MHz simplex (FM phone) at 8:00 PM local time, weekdays + some Saturdays. Net control is usually Bill, N8QVS, or Bill, KB8NIH, both of whom are located in Royal Oak.

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 or Ed, W8EDE ed@ellisgen.com.

HPARC medium speed CW net

Every Tuesday night at 8:00 PM on 28.128 MHz. Al, N8WYO, runs the net and will match your speed. This is a net for folks who have mastered the 5 wpm, and want to move up to faster speeds, or if you're a little rusty.

Al calls CQHP at 8 PM sharp!

QRM CONT.

(Continued from page 1)

Board members are not eligible while serving on the board

Now is the time to get those antenna projects done while the weather is still good. If you have a tower that is going up or down get everything ready and let the group know. We have helped on quite a few after Saturday breakfast at Jimmy's. Do you only have space for a single wire all band antenna? I have found that the Carolina Windom 160 special works quite well and is 132 feet long. A G5RV would be my second choice.

"The Radio Amateur is **PROGRESSIVE** ... with knowledge abreast of science, a well-built and efficient station and operation above reproach." From the Amateur's Code as printed in an ARRL publication.

Don't forget the Official HPARC Sunday night net at 9:00 pm on 146.64. We would be happy to have everyone sign up to take a turn as the net control operator; it is fun and good experience. The net is what we make it, so let's everyone meet there and make it the best net in the area.

The Hazel Park Amateur Radio Club came in 10th in the Michigan club category of the 2009 Michigan QSO Party. Our score was 50,245. Only four members turned in logs with the club name on them: N8NX, N8AE, W9NPI and I, KE8UM. Our club sponsors one of the plaques so we should have more members participate.

See you at the meeting, on the net and at Saturday morning breakfast

73

Murray, KE8UM

HAPPY BIRTHDAY HIRAM

Today, the League celebrates the 140th anniversary of the birth of ARRL's co-founder and first President, Hiram Percy Maxim, W1AW! Maxim – born September 2, 1869 – decided a national organization for Amateur Radio was in order after he needed a "relay" station in Agawam, Massachusetts to pass a message he was sending from Hartford to Springfield, Massachusetts. In honor of The Old Man's (TOM) birthday, the ARRL is holding a [week-long Special Event](#), where eligible amateurs may add /140 to their call signs. A complete list of who may add /140 can be found on page 20 of the September 2009 issue of *QST*. Hams who work at least 25 /140 stations can earn an attractive certificate; this certificate can be endorsed in increments of 25 QSOs, up to 100.

Maxim was no stranger to technology. He entered the Massachusetts Institute of Technology (Class of 1886) and graduated at the tender age of 16. Through the activities of his son Hiram Hamilton Maxim, TOM became interested in Amateur Radio. In 1908, he filed for a [patent for a firearms silencer](#); the patent was granted the following year. Maxim used this technology to make silencers for guns, motor exhausts, safety valves and air releases. In all, Maxim received 59 patents, most of them dealing in the field of mechanical engineering.

In 1928, Maxim, along with other dignitaries of the day – including Thomas Edison – attended a party at the home of George Eastman, the founder of Kodak. TOM was an avid film buff and was even involved in the early days of motion pictures. Check out this [video](#) (available on YouTube) of a dapper Maxim at Eastman's party.

"I hope everyone enjoys our Special Event honoring Hiram Percy Maxim," said ARRL Chief Executive Officer David Sumner, K1ZZ. "I know if TOM was alive today, he would be on the air, having a ball!" Maxim, together with Clarence Tuska, founded the ARRL in 1914. Maxim served as President of the ARRL since its inception, until his death from complications stemming from a throat infection in 1936. – *Thanks to Howie Lash, AEOKU, for bringing the YouTube clip to our attention*

HPM/140 Birthday Celebration Event

The Hiram Percy Maxim Birthday celebration is back! This year, the ARRL is honoring the 140th anniversary of the birth of the League's first president and cofounder.

The operating event is open to all amateurs, and the goal is straightforward: Find the stations adding /140 to their call signs, and contact as many as possible during the event period, September 2-9. Who is eligible to sign /140? ARRL members who hold ARRL appointments, ARRL elected volunteers (such as ARRL Directors and Section Managers), ARRL Life Members, ARRL Headquarters staff and VEs, AECs, QSL bureau workers and awards managers (who are ARRL members). The complete list of eligible positions can be found on page 20 of the September 2009 issue of *QST*. If you work at least 25 /140 stations, an attractive certificate can be yours! The certificate can be endorsed in increments of 25 QSOs, up to 100.

Time Period: 0000 UTC September 2 until 2400 UTC September 9.

Exchange: All stations signing /140 send RS(T), their appointment and their name; others send RS(T) and their name.

Eligibility: All amateur stations may participate. ARRL Life Members, and those persons holding ARRL appointments, elected positions or ARRL HQ staff, may add /140 to their call signs for the duration of the celebration. Volunteer Examiners, Assistant Emergency Coordinators, QSL Bureau workers, Registered Instructors and Awards Managers who are ARRL members are also invited to participate.

Miscellaneous: /140 stations may be contacted on any band or mode for credit. You can work a station once per band and mode. Repeater contacts are valid for credit, but please be considerate of the users during a repeater's busy periods. All /140 stations are encouraged to be as active as possible on local repeaters and nets. The certificate is available for making at least 25 contacts with /140 stations, with endorsement increments of 25, and a maximum endorsement of 100. To receive the award, send in a log extract with the date, time, band, call sign worked and exchange for each /140 contact. Include your name, call sign and address, and tell us how many /140 stations you worked. Mail everything to HPM/140 Celebration, c/o W1AW, 225 Main St, Newington, CT 06111-1494. You can also send in your entry on a disk or CD in regular text format. All entries must be accompanied by a check or money order for \$5 (US) payable to ARRL. Please make sure your entry is postmarked by October 9, 2009. ◀

C Q D X . . .

[The Daily DX](#) relays news that **St Maarten (PJ7) and Curaçao (PJ2)** will become countries within the Dutch Kingdom (similar to the British Commonwealth) by October 2010, just in time for CQ WW SSB. Consequently, the status of Bonaire (PJ4), St Eustatius (PJ5), and Saba (PJ6) could also evolve. Should a change in status occur, there will no doubt be a change in the DXCC and CQ DX status, as well. Watch for news on the subject and be prepared for an update in the CTY files your logging software uses, too. [source: ARRL Contest Update]

4U30VIC, AUSTRIA. On the Air 9/12-13

The Vienna International Centre Amateur Radio Club (4U1VIC) will be on the air during the Worked All Europe DX Contest (WAEDC), September 12-13th. This will be a SSB only operation. The station is located in the secured United Nation campus in Vienna, Austria, and due to access restrictions, they will not be able to operate the full 48 hours continuously. They will try to be on the air as much as possible.

4U1VIC will send QSL cards for all QSOs via bureau. If you are in a hurry you can send it direct including SAE and return postage to: AMATEUR RADIO CLUB, VIENNA INTERNATIONAL CENTRE, P.O.BOX 500, A-1400 VIENNA, AUSTRIA.

ADDED NOTE: A new video about the 4U1VIC Radio Club in Vienna is available online at: <http://www.vimeo.com/6301009>

Getting that New One

This item from [Daily DX](#) tells you about DXCC activations during the Scandinavian Activity Contest.

LA7XK, Halvard; LA6VM, Erling; and LA9DL, Just; will again be QRV from Svalbard as JW5X during the SSB portion of the Scandinavian Activity Contest (SAC). They will arrive in Longyearbyen mid day Thursday September 26th and will depart at the same time on Monday September 30th. Before and after the contest the guys will be QRV as JW9DL, JW7XK and JW6VM operating CW, SSB and digital modes.

You don't have to be in the contest to work them. Just give them right report. Otherwise they will not put you in their log. Find the rules at <http://www.sk3bg.se/contest/>

CONTEST CORNER

Welcome to Contest Corner. As usual, there seems to be something for everyone. CU on the air.

September 2009

- 5- 6 All Asian DX Contest - SSB
- 5 Russian "Radio" RTTY WW Contest - RTTY
- 5- 6 Colorado QSO Party - All**
- 5- 6 IARU Region 1 Field Day - SSB
- 6-12 FISTS Straight Key Week - CW
- 6- 7 Tennessee QSO Party - All**
- 12-13 Worked All Europe DX-Contest - SSB**
- 12-13 Arkansas QSO Party**
- 12 Ohio State Parks On the Air - All**
- 12-14 ARRL September VHF QSO Party - All
- 12-13 QRP ARCI VHF Contest - All
- 16 MOON Contest - CW/Digital/SSB
- 19-20 The 51st Scandinavian Activity Contest - CW
- 19-20 South Carolina QSO Party - All**
- 19-20 QRP Afield - All
- 19-20 Washington Salmon Run
- 19-20 QCWA QSO Party - All**
- 21 Run For The Bacon QRP Contest - CW
- 26-27 CQ WW RTTY DX Contest - RTTY
- 26-27 Texas QSO Party (1) - All**
- 26-27 Coast to coast FISTS Clubs QSO Party - CW

HPARC Contest Team

I know that some of us belong to Contest Clubs, but if you don't, then how about putting HPARC on the Contest community map.

When you operate a contest HPARC can earn points by putting down "Hazel Park Amateur Radio Club" where it says Club and we could earn an award. You never know who else in the club is working that contest .

Also, if you want to make up a team, get in touch with [Mike WD8S](#) so we can get an email sent out. Being part of a team is good for the part-time contesteer who wants to operate the contest but has to work or has a family obligation.

73
Marsha N8FE

EXTRA CLASS COURSE SEASONAL FLU SHOT

The Garden City Amateur Radio Club presents the Amateur Extra course. Join us in this 14 week class and get Radio-Active on the Extra bands! The class consists of 13 weeks of instruction with the FCC exam session on the final week. No text is required, study materials and software will be distributed in class. A PC with Windows 98, XP, or Vista is highly recommended. Attendee's should hold a General Class or Advanced Class license to attend this class.

Course Questions may be addressed to Fred Comps, K8KUZ at 734-261-6441, or email k8kuz@aol.com

Registration Information

Class Name: Amateur Radio Extra Class Course

Day: Thursday

Time: 6:30-9:30PM

Class starts September 24th and ends December 23rd.

Two of the class fall on holidays: Thanksgiving and Christmas Eve. Those classes will be scheduled on the Wednesdays immediately preceding the holidays. (November 25th and December 23rd)

Cost: \$25

Section #: AR3F

Location: Cambridge High School, Room 121

28901 Cambridge

Garden City, Michigan 48135

Phone: 734-762-8430

Fax: 734-762-8534

Make Checks Payable to: Garden City Public Schools and mail in to the above address.

Include your full name, address and phone numbers and course registration information.

You may call in your registration and charge to your Master Card, Visa or Discover Card.

Any registration questions, please call the school.

Pre-registration for the Oakland County Health Division 2009 - 2010 seasonal flu program has begun. The following five community locations, beginning the week of Monday, September 21, 2009 will provide **seasonal flu shots only**:

- Monday, September 21, 2009, **12 pm – 6 pm**
Oakland County Farmers' Market, 2350 Pontiac Lake Road, Waterford
- Monday, September 28, 2009, **9 am – 3 pm**
James R Geisler Middle School, 46720 West Pontiac Trail, Walled Lake
- Monday, October 5, 2009, **9 am – 3 pm**
Southfield Pavilion, 26000 Evergreen Road, Southfield
- Wednesday, October 7, 2009, **10 am – 3 pm**
William Costick Center, 28600 11 Mile Road, Farmington Hills
- Thursday, October 15, 2009, **10 am – 3 pm**
Troy Community Center, 3179 Livernois, Troy

Oakland County residents are encouraged to pre-register online at www.oakgov.com/health to attend one of these clinics. This pre-registration system will automatically assign you a date and location to receive vaccine based on your zip code. If you are unable to attend the assigned date or location, please select a location convenient to your needs.

We will also accept walk-in clients at any of these flu shot clinics.

Flu shots are now available for the **newly reduced price of \$10.00**. Online

Dorian N8AVY

Useful link for all sorts of calculations.

Have a look around the site,
tons of information.

<http://www.daycounter.com/Calculators/>

73, Shanon KA8SPW

ARRL Great Lakes Division Symposium

September 12, 2009

1700 Fostoria Ave., Findlay, OH
Sponsored by the Findlay Radio Club
Admission is FREE

The Symposium is intended to be an opportunity for hams to get together and exchange ideas and information. This year's event will have an emphasis on providing information for the "relatively" new Amateur Radio Operator by giving an overview of some of the many different aspects of our hobby. We also hope that hams of all levels will attend to share their experiences. There will also be an emphasis on Elmering – attracting people to our hobby and keeping them interested in it.

Presentations by:

Tony England - Astronaut
Rev. George Dobbs—G3RJV—intro to QRP
Rick Campbell—KK7B—Intro to VHF Experimenting
and others

Hints and Kinks Hour—Bring your questions!

Admission—FREE

Registration—8—9 AM

Presentations 9—noon, 1—5 PM

Demo's at lunch time

Box lunch available—\$5

Chicken barbeque at 6 PM \$10

Much more info is available on the Findlay Radio Club Web Page
www.findlayradioclub.org

VOIP HURRICANE NET

The VoIP Hurricane Net – which meets weekly during the hurricane season months of June-November and monthly from December-May – has also been monitored Tropical Storms Ana and Claudette last week and is closely monitoring the progress of Hurricane Bill this week <http://www.voipwx.net/>.

"We are continuing to closely monitor the storm's progress," said VoIP Hurricane Net Director of Operations Rob Macedo, KD1CY. "Since 2002, we have been gathering surface reports to help WX4NHC save lives," he said. "The Net activates whenever there is a land falling hurricane and will review any and all sources to gather surface data for WX4NHC as required."

The weekly VoIPWX Net had a surge in activity last week as Tropical Storms Ana, Bill and Claudette formed almost right on top of each other.

Macedo told the ARRL that hams, many of whom are in hurricane-prone areas, were informed of the advisories for each tropical system. "The Net also informally activated as Claudette made landfall as a tropical storm in the Florida Panhandle," he explained. "The VoIP Hurricane Net Activation Policy <http://www.voipwx.net/node/235> is to activate during hurricanes, but will sometimes activate in the event of strong tropical storms that are near hurricane strength."

The VoIP Hurricane Net meets every Saturday evening at 8 PM EDT (0000 UTC Sunday) on the *WX-TALK* EchoLink Conference Node: 7203/IRLP Reflector 9219 system. When hurricanes threaten land, the Net meets and stays active as long as required on the system with listen-only EchoLink conferences and IRLP systems and streaming audio systems available.

SEPTEMBER / OCTOBER WEBINAR SCHEDULE

By K4ZW, Ken Claerbout

I am pleased to announce the Webinar schedule for September/October. Things kick off next Wednesday (9/9) with KR2Q's "When GIANTS First Walked the Bands - The Early Days of Multi-Multi." Doug's presentation includes timeless photos and a nostalgic look back at the early days of multi-multi contesting. This is one of those presentations where you can put your feet up and enjoy a great trip down memory lane!

The schedule also includes the first jointly hosted event by PVRC & NCCC. Dean Straw, N6BV, will present "Hints and Kinks for Using HFTA." Myself and Dean N6DE of NCCC had a chance last night to preview some of N6BV's material. This is must see TV (Webinar)!

October programs include a return presentation by Carl Luetzelschwab K9LA on "Propagation Prediction Programs: Their Development and Use", a follow on to his earlier Webinar on Cycle 24. Wally Stefanov, LZ2CJ, will give us a look at the LZ9W contest station and discuss their plans for CQWW 2009. You may have seen some of the pictures Wally has already posted. The LZ9W team has been very busy this summer!

There is one other presentation in the works for October which will be of interest to the entire contest community. Final details are almost complete and the announcement should be out very soon.

Our Webinar webmaster is recovering from surgery so the registration links have not been posted to www.pvrc.org yet but they will be in the near future.

You will be able to find them and earlier events under the "PVRC Webinars" link. In the mean time, use the links below to view dates/times, program descriptions, and registration forms.

Please spread the word! Feel free to send comments, questions, suggestions to k4zw@comcast.net

When Giants First Walked the Bands (KR2Q)
<https://www2.gotomeeting.com/register/194362715>

Hints and Kinks for Using HFTA - A Joint PVRC/NCCC Event (N6BV)
<https://www2.gotomeeting.com/register/765264739>

A look at the LZ9W Contest Station (LZ2CJ)
<https://www2.gotomeeting.com/register/602693035>

Propagation Prediction Programs: Their Development and Use (K9LA)
<https://www2.gotomeeting.com/register/265695923>

9 - 1 1 A C T I V I T Y

Mike, WOYR, will once again (as for the past several years) be active as WOYR/911 on September 11th, to honor/commemorate those lives lost in a terrorist attack at the Twin Towers of the World Trade Center in New York City, the Pentagon in Arlington, Virginia, and the plane that crashed into a field near Shanksville, PA.

He plans to operate as much of the day as possible. Mike states, "I just wanted to do it to remind those I work on the air of what this country endured because of hatred -- and also remind those who want to minimize it or forget it, that this WAS an Act of Terror and, even though they would like to revise history, the memory of those (among them, two of my friends) who perished on September 11th, 2001, will NEVER be forgotten or sullied." A special QSL will be issued. QSL via his home callsign.

K I D S L E A R N 3 0 / 3 0 R U L E A N D M O R E

The State of Florida Emergency Management created 3 PDF books and an interactive website just for 1st-3rd grade students.

Now with tornados, hurricanes, thunderstorms, floods and more on the horizon, this is an ideal time to ramp up awareness.

Students are an excellent vehicle for sharing preparedness concepts and, indirectly, with their parents and the community.

Check out www.kidsgetaplan.com You will find various resources, available for downloading. Play the interactive games and print your own Weather Watcher Certificate at <http://www.kidsgetaplan.com/Activities.php#>

PASSING THE TECH TEST

By Dan Romanchik, KB6NU

I teach One-Day Tech classes. At the start of each class, I go over the following to help focus students on what to keep in mind when taking the test. It occurs to me that these are good tips no matter who is taking the test, so if you know someone who will be testing soon, please feel free to pass along this advice.

Technical Topics

The Tech test is not very technical, but there are three technical topics that you need to know:

- Ohm's Law,
- How to calculate power, and
- The relationship between frequency and wavelength.

Ohm's Law

The basic formula for Ohm's Law is voltage (E) equals current (I) times resistance (R), or $E = I \times R$. On the test, there are several questions where they give you two of the values and ask you to calculate the third. If you're asked to calculate the current, you use the formula, $I = E / R$. If you need to calculate the resistance, use the formula $R = E / I$.

How to Calculate Power

The formula for calculating power is power (P) = voltage (E) times current (I), or $P = E \times I$. To calculate the current drawn, when given the power being consumed and the voltage applied to the circuit, use the formula $I = P / E$.

Relationship Between Frequency and Wavelength
There are several questions that require you to calculate the wavelength of a signal or some fraction of the wavelength. The reason for this is that antennas are often a fraction of a wavelength.

The formula that describes the relationship between frequency and wavelength is **wavelength in meters = 300 / frequency in MHz**. One question asks for the approximate length of a quarter-wavelength vertical antenna for 146 MHz. To figure that out, you first calculate the wavelength:

wavelength = $300 / 146 = 2.05$ m or about 80 inches
One quarter of 80 inches is 20 inches, and the antenna will actually be a little bit shorter than that because radio travels more slowly in wire than it does in free space. The correct answer to this question is 19 inches.

That's all there is to the technical part of the test!

Safety

There are lots of questions on the test about operating safely and being safe when working on antennas. My advice when answering these questions is to always choose the most conservative answer. The two exceptions are when asked what is the lowest voltage and current that can hurt you. For these questions, the correct answer is the second lowest choices.

Emergencies

There are lots of questions about what to do in emergencies. There are two things to keep in mind when answering these questions:

- You should do whatever you can to help someone who is in an emergency situation.
- You can even break the rules to help someone in an emergency situation. This includes operating on frequencies you are normally not allowed to operate on and communicating with other stations in other radio services.

Miscellaneous Tips

Here are a couple of other miscellaneous tips:

- The answer is 'D.' If one of the answers to a question is, "D. All of these answers are correct," chances are that is the correct answer. There are 18 questions with this option, and of those 18 questions, there are only two questions—T3B06 and T5B03—where that is not the correct answer.
- Long-Answer Rule. Where one answer is a lot longer than the other options, chances are that this is the correct answer. I haven't done an exhaustive study of this, but when one answer is very long, take a good, hard look at it.

That's all I have. Good luck on the test!

When not helping people pass the Tech test and become good amateur radio operators, Dan likes to work CW on the HF bands and collect QSL cards from stations whose call signs spell words. To see what else he's up to, go to www.kb6nu.com

AROUND TOWN

12 Sep 2009 **GRAHamfest 2009** Grand Rapids ARA
<http://www.grahamfest.org> Talk-In: 147.26- (PL 94.8)
 Contact: [Jack Amelar, NY8D](#)
 Kent County Fairgrounds
 225 South Hudson
 Lowell, MI

17 Oct 2009 **Lakeshore Super Swap** Holland ARC
http://www.hollandarc.org/?page_id=22
 Talk-In: 147.06+ (PL 94.8)
 Contact: [Tom Bosscher, K8TB](#)
 West Ottawa High School (South Campus)
 3600 152nd Avenue
 Holland, MI

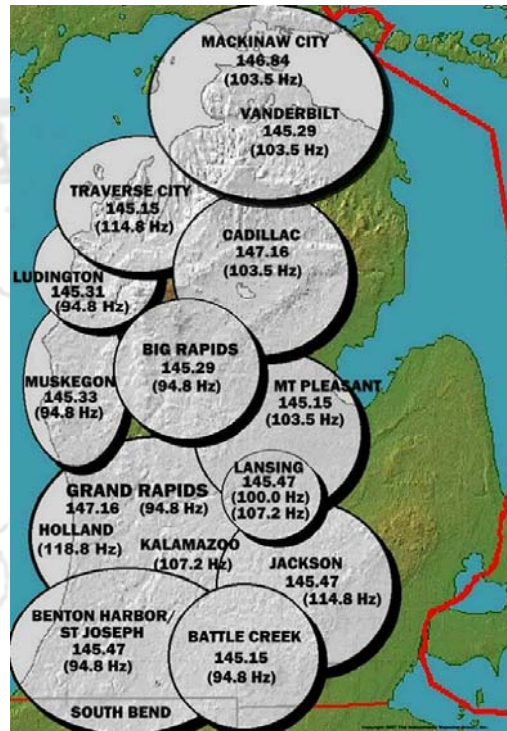
18 Oct 2009 **Kalamazoo ARC & SW Michigan AR Team**
<http://www.KalamazooHamFest.com>
 Talk-In: 147.040 (PL 94.8) - K8KZO Repeater
 Contact: [Ruth Bates-Hill, WB8VEV](#)
 Kalamazoo County Expo Center & Fairgrounds
 2900 Lake Street
 Kalamazoo, MI

20 Sep 2009 **Amateur Radio Swap (Adrian ARC)**
<http://www.w8tqe.com> Talk-In: 145.37- (PL 85.4)
 Contact: [Marjie Willey, KB8TMM](#)
 Lenawee County Fairgrounds
 602 Dean Street
 Adrian, MI

25 Oct 2009 **24th Annual USECA Hamfest**
<http://www.usecaarc.com> Talk-In: 147.180 (PL 100)
 Contact: [Chuck Perushek, N8ZA](#)
 American Polish Century Club
 33204 Maple Lane Drive
 Sterling Heights, MI

6 Dec 2009 **L'Anse Creuse Amateur Radio Club**
<http://www.n8lc.org> Talk-In: 147.08 DOWN (PL 100)
 Contact: [Marty Folz, K8HVI](#)
 L'Anse Creuse High School
 38495 L'Anse Creuse Street
 Mount Clemens (Harrison Twp), MI

MI'S LINKED UP



The IRA linked repeater system is comprised of ten 2-meter repeaters and one 440 repeater connected together to provide means of communicating via portable, mobile, or fixed stations over a wide area of

the lower Michigan peninsula and parts of the upper Michigan peninsula. NOTE: Some link repeaters may not be activated or operational – see [Status](#) and [Map](#).

The link system operates as “one giant repeater.” That is, when someone keys into one of the repeaters, they are heard on all of them. At least 16 transmitters are keyed up during any one kerchunk or transmission. So please avoid just kerchunking the repeater, or at least say your call because you just might start a QSO.

The IRA became registered in Michigan as a Corporation, and obtained 501 (c) 3 status from the IRS as a charitable organization. The IRA Charter allows up to 10 members on the Board. These volunteers donate their time to manage the financial and technical matters pertaining to operating the repeater(s). There are no dues. Finances come strictly from donations (equipment and money) which are tax deductible, and Hamfest proceeds. The IRA sponsors an annual Hamfestival usually held on the first Saturday in June at the Hudsonville, Michigan Fairgrounds.

Get all of the facts on the repeater system at their website <http://www.w8hvg.org/index.html>.

MARK YOUR CALENDAR

2009 DATES

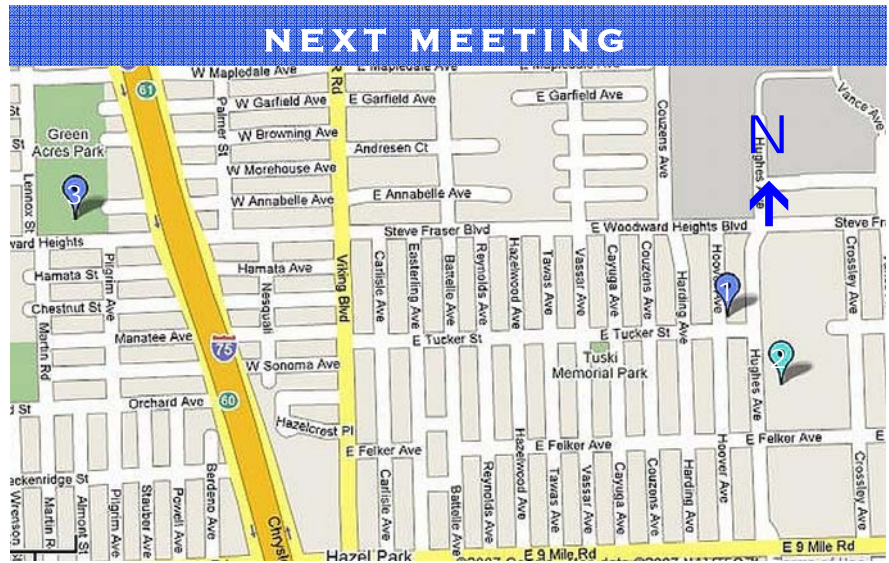
October 14
November 11
December 9

TIME

Socializing @7:00 P.M.
Meeting @7:30 P.M.

PLACE

Hoover Elementary
23720 Hoover Ave.
Hazel Park 48030



Locations: 1- Meeting 2- Swap 3- Picnic

We're on the Web
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?