



Zero Beat

September 2019

General Meeting

Wednesday September 11th

7:30 PM

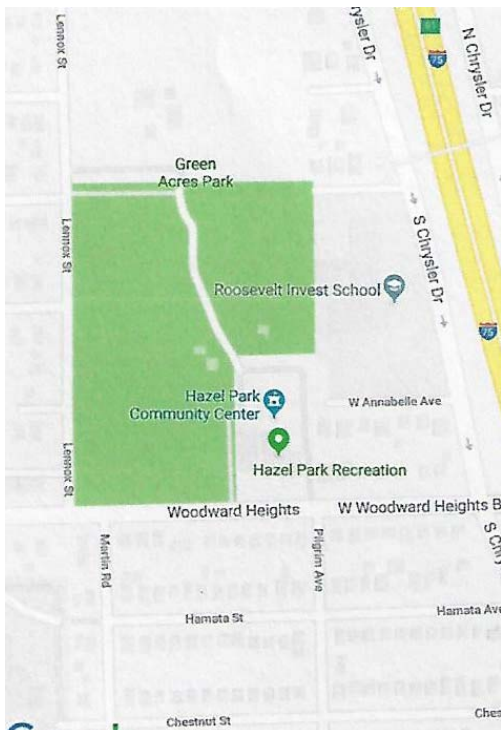
Meeting Location

Recreation Department

Community Center Dining Room

620 W. Woodward Heights

Hazel Park, MI.



President's QRM

Congratulations to the new officers of the HPARC Club. Thank you to the past officers, committee chairs and volunteers who have contributed their time and talents to the club to ensure its success.

I trust those who participated in the ARRL Field Day had a great time. Because I was assisting my parents' relocation, I was not able to attend the ARRL Field Day. Relocating the Field Day site within hours of the start of Field Day demonstrated HPARC's flexibility to address the unexpected. Thank you for your participation.

The August HPARC Picnic was another great opportunity to connect with club members and their guests. It was a beautiful day and I trust every one enjoyed the picnic.

The summer of 2019 held several significant milestones for my family... I managed my parents move and the sale of their house of 50 years. The USA celebrated 50th anniversary of the moon landing. Fifty years ago my dad traveled with family back to Michigan after completing his work in Florida on the Saturn1B rocket that was a stepping stone for the historic moon landing. Closer to home, my wife and I celebrated our 40th wedding anniversary and at the same time became emptynesters after 35 years.

ARRL is celebrating Hiram Percy's 150th birthday. Just last December HPARC celebrated the 50th anniversary of the Sunday 2M Net. Shortly, HPARC will be holding its 54th annual SWAP. What a legacy for HPARC hams to be proud of.

HPARC has a fantastic legacy that I am confident the HPARC Board, HPARC Committee Chairs and HPARC volunteers can contribute improvements that will add to this great legacy.

The members of the HPARC play a vital role that ensures current membership enjoyment and attracts new members to the club. In the end, it is as simple as volunteering, showing -up and having a great time.

While cleaning out my radio shack I found a \$3.00 Swap ticket from the HPARC 25th Annual Swap held on December 2, 1990. I did not enter it for the prize drawings...



As I noted, the SWAP is one of the great HPARC legacies. The SWAP chair position is open and in need of a volunteer to fill this role. Who will step forward and provide the leadership to continue the legacy of the HPARC SWAP?

Working with the HPARC Board, HPARC Committee Chairs and HPARC volunteers we will focus on getting new hams on the air, increasing membership, increasing membership involvement, improving the communication of the Club's activities and improving the DART repeater performance.

I am honored to be the president of the HPARC for one more year and look forward to working with the HPARC Board, HPARC Committee Chairs and HPARC volunteers to continue the success of the club.

As we all know, "Many hands make light work".

Volunteer, Attend and Have Fun

73 David AA8IK

President - HPARC



2019-08-14 HPARC Special membership meeting at Scout Park

At 6:50pm a special meeting was called to order by President David AA8IK.

1st Vice President Jim, K8ABZ confirmed that we had appropriate quorum present.

Special meeting agenda - dues increase. Based on our budget as presented in the sprint, our budget is very much in the red. The Repeater needs upgrades. The Union Hall price has increased for the swap.

A Proposal was made to increase the dues from \$20 to \$25, which would be the first change in almost 20 years. Marsha N8FE made the motion, seconded by Hugh KE8BED. Discussion - Ken AD8M- given that we haven't changed dues in so many years, he requested that Marsha amend the motion to increase by \$10 to \$30, starting in September. Marsha accepted Ken's amendment. Vote. Majority approved, 2 opposed. The motion carried.

Meeting adjourned at 6:56pm.

Respectfully submitted,

Reuven KB3EHW

HPARC Secretary

General Class License Course

The Hazel Park Amateur Radio Club and the Southfield Emergency Management Division are pleased to offer our latest General course. It runs for Twelve weeks, on Tuesdays, September 10 to November 26, from 7 to 9 PM. The VE Exam will be administered in neighboring Oak Park the week after the course is completed.

2019 Field Day Results

I've included the submittal and a comparison to previous years. Thanks for all your help. Pretty good score considering, and a great turn out. We could had a higher count of attendees if we were at the park, but operator wise it worked out very nice. The total number of Qs was 936. Considering all the cross talk that's not too bad.

Points wise we've done worse. I think the FT8 really helped as each Q was worth 2 pts. Just like CW.

Band	Mode	QSOs	Pts	Pt/Q
3.5	CW	107	214	2.0
3.5	LSB	16	16	1.0
7	CW	390	780	2.0
7	LSB	255	255	1.0
14	FT8	96	192	2.0
14	PSK3	9	18	2.0
14	USB	6	6	1.0
21	FT8	36	72	2.0
21	USB	11	11	1.0
28	FT8	6	12	2.0
28	USB	3	3	1.0
50	USB	1	1	1.0
Total	Both	936	1580	1.7

Score : 3,160

Score Previous Years

2019	4010
2018	3368
2017	5308
2016	4906
2015	4040
2014	4818
2013	6084
2012	7028
2011	6942

73s John Teagardin, AA8UU

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.

ARPSC Thursday Night 2-meter Phone Net

Every Thursday @ 8 pm on 146.90 (PL 100). Hospital Radio Net on the last Thursday of each month @7:30. (W80AK-3 will run packet on 147.56 MHz for those wanting to practice and test their equipment)

<http://www.arpesc.com/>

Around Town

HPARC Buddy Breakfast every Saturday @ 9:00 AM (or so)

Cozy Cabin Diner, 2129 E 12 Mile Rd, Warren, MI. Come early for the socializing. Park in the restaurant parking lot.

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

March through November except in April. Contact Marsha N8FE at n8fe@arrl.net to be assigned a siren to test.

Amateur Radio License Testing

HPARC and the City of Oak Park offer amateur radio license testing on the first Tuesday of even-numbered months at the Oak Park, Michigan Community Center (14300 Oak Park Blvd, Oak Park, MI 48237) beginning at 7:00 PM. Contact Jerry W9NPI at w9npi@arrl.net

Club Officers

President

David Koch AA8IK
davidpkoch@comcast.net

Treasurer

Robert Lauer N8REL
rlau6@aol.com

1st VP

Jim Poehlman K8ABZ
k8abz@arrl.net

Director

Bill Ketel N8QVS
n8qvs@arrl.net

2nd VP

Joe Raznik
joeraznik@gmail.com

Parliamentarian

Hugh Boyle KE8BED
photoink7@hotmail.com

Secretary

Reuven Gevanyahu K83EHW
kb3ehw@arrl.net

Volunteer Positions

Technical Coordinator and W8HP

Trustee

Joe Raznik WB2ADX JoeRaznik@arrl.net

W8JXU Trustee

Bill Ketel N8QVS n8qvs@arrl.net

Education/VE Testing

Jerry Begel W9NPI w9npi@comcast.net

Contest Mentors

Mike WD8S wd8s@arrl.net

Gerry K8GT k8gt@arrl.net

Public Information Officer

Rick Laird, KB5OO ricklaird1@comcast.net

LoTW Manager

Murray Scott KE8UM ke8um@arrl.net

Zero Beat Newsletter

Rick Laird KB5OO ricklaird1@comcast.net

Webmaster

David Koch AA8IK aa8ik@arrl.net

Meeting Coffee and Donuts

Brenda White KD8SGB

Sunday Net 9:00 PM

Net Control Operators Bob Lauer N8REL,
Lee DeRosiai KD8TBC, John Little W8TOY

Banquet June 10, 2020

John Little W8TOY

HPARC Official Cook

Bill Ketel N8QVS n8qvs@arrl.net

Swap and Shop January 19th 2020

Open

Member Meeting Audio Video Support

Ken KE8LIG

HPARC Picnic Chair August 12th, 2020

Jay KB8SBI

Holiday Party December 11th

The Board

Club Equipment Inventory

Jim K8ABZ

Lark in the Park

John T. AA8UU

Field Day June 26-27th 2020

Chair John T. AA8UU

Co-chair Ken AD8M

Meeting Greeter

Edgar N8LBS



QTC All Hazel Park Amateur Radio Club Members & Friends

"Service Through Education"

ARRL Field Day 2019

From: WB2ADX—Joe Raznik

Before the Nuclear-Test-Ban Treaty was signed in 1963, Americans occasionally heard the following announcement on their radios and television sets:

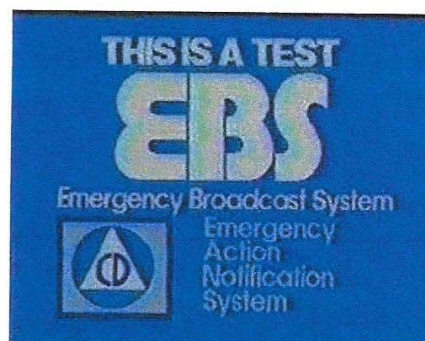
".... "This is a test of the Emergency Broadcast System. The broadcasters of your area in voluntary cooperation with the Federal, State and local authorities have developed this system to keep you informed in the event of an emergency.

In the case of HPARC members who lived in the Detroit area, WJR at 760 kHz was the local Emergency Broadcast System (EBS) station. The dedicated people at WJR were responsible for alerting residence in Southeastern Michigan of an approaching storm, be it natural or man-made.



The Emergency Broadcast System was initiated in 1963 during the Kennedy Administration, to allow the president to address the entire nation in the event of an emergency. The EBS was later expanded through an interagency effort with the FCC, FEMA and the National Weather Service (NWS), to permit the system to be used for state and local emergencies.

Although the system was never used for a nuclear emergency, it was activated more than 20,000 times between 1976 and 1996 to broadcast civil emergency messages and warnings of severe weather hazards.



ARRL FIELD DAY EXERCISES

CONTRIBUTIONS FROM THE GRASS ROOTS TO THE COMMUNITY'S WELFARE

In a like manner, ARRL's Field Day is an annual exercise for Amateur Radio volunteers to perfect their Emergency Communication skills for assisting a community's First-Responder Organizations. The goal of the exercise is to work as many stations as possible on the amateur bands and in doing so, learn to operate under less than optimal conditions. A premium is placed on developing skills for meeting the challenges of emergency preparedness as well as to acquaint the general public with the capabilities of Amateur Radio.

The Hazel Park Amateur Radio Club (HPARC) began planning in early May, about 6 weeks prior to Field Day 2019. The plan was similar to past years: an operations tent setup on the grass in Hazel Park's Scout Park. Nearby, the antenna crew would fly different variations of wire dipole antennas between the trees and assemble portable vertical and Yagi antennas on the ground. The Electrical source for the compound is an off-the-grid two-kilowatt AC generator, three solar panels and a high capacity storage battery. The Canteen is normally setup in the Scout Park Pavilion adjacent to the operations tent to provide refreshments throughout the 6-hour setup, 24-hour operating period and 3-hour teardown.



Operations Tent with Yagi Tower

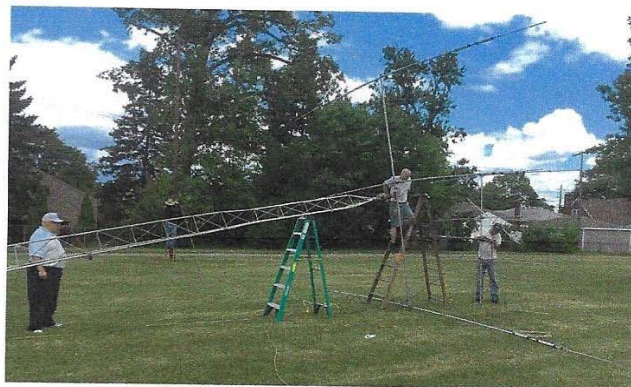


Three of Five Operating Positions



Off-the-Grid Generator & Solar Cell Array

So, the story unfolds on an early Saturday morning when Bob--WB8ATZ and his Tower Crew arrive first on site to get a jump on unloading the trailer carrying galvanized sections of his portable 30-foot antenna tower. As work began, a Hazel Park Ranger greeted them with some unexpected news.



Assembling the Tilt-up 3-Element Yagi Tower

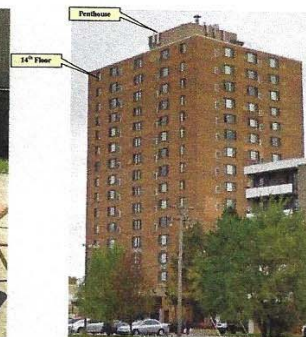
Because of a scheduling conflict, the park was closed today. A neighborhood resident booked the pavilion for a graduation party and the Ranger was not allowing anyone else in the park until further notice. So, this year, the HPARC Field Day crew was faced with a dilemma needing immediate attention. At first, all this was thought to be bad news but, in the end, the team made a remarkable comeback.

An important Field Day skill is a club's capacity for responding to the unexpected. In a real-life emergency it's totally possible the planned emergency operations site becomes unusable from a flood or contamination released by a nuclear power plant, 35 miles downriver. So, this year's exercise prompted a swift and immediate response to an unexpected situation revealed only after arriving on site to begin setup.

After a short time, word began to spread on the club's VHF & UHF repeaters, HPARC had to search for a new location that had to be identified, surveyed and setup just 5 hours before the start of the event.



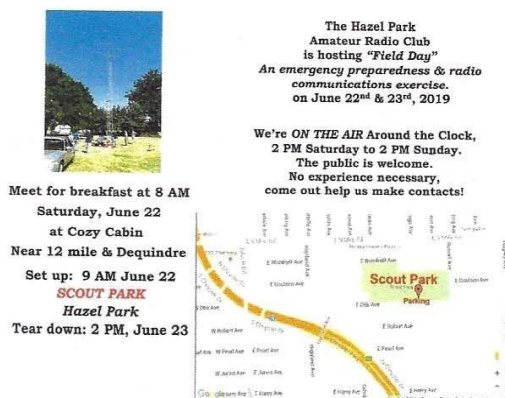
*DART Repeater
Field Site*



*DART Repeater
Main Site*

A quick visit to the Hazel Park Municipality turned up little because it was so early in morning the Parks Department didn't open for another 3 hours. So, with the clock ticking towards an On-Air start time of 2PM, the only option was the Hazel Park Police Department.

After John—AA8UU explained the situation to the Desk Sargent, he offered a few possibilities but each had unknown conditions raising the likelihood of not being ready until well after the start of the On-Air phase of the exercise.



Normally, clubs arrange for temporary operating accommodations, schedule operators and procure emergency power weeks in advanced. However, today's exercise focused on quickly finding a suitable location.

The Solution

The Setup Crew changed gears and came up with an uncomplicated alternative making it possible to make up for lost time. The goal was to have W8HP ready before On-Air exercises began at 14:00 EDT with at least one CW/SSB station. So, everyone pulled together in an effort to *Beat-the-Clock*.

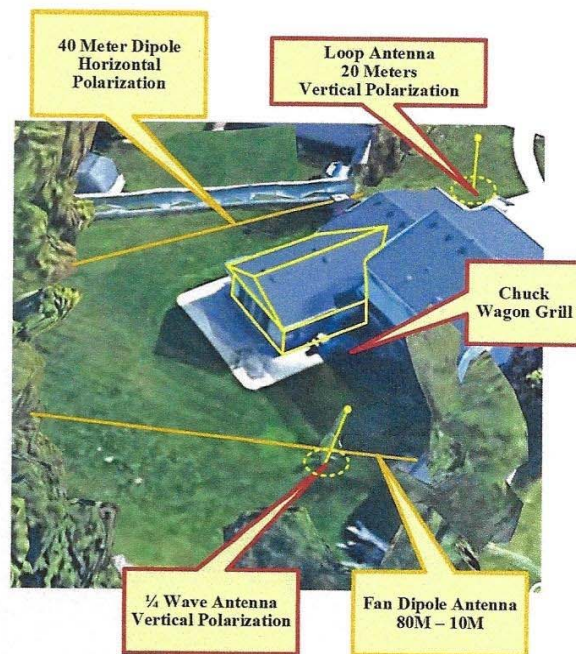
YouTube



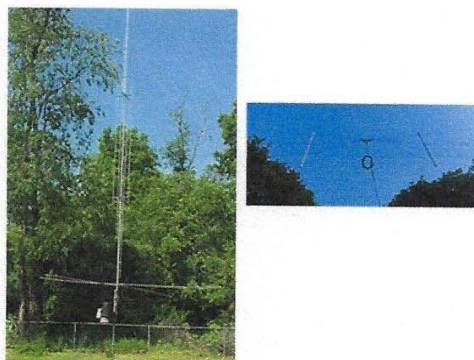
BEAT THE CLOCK 1950'S TV GAME SHOW WITH BUD COLLYER

The solution was to move the site to a location adjacent to a forested area belonging to the Red Oaks Nature Center at Ken—AD8M's QTH. In addition, his property was large enough to

accommodate a 40 Meter dipole strung between the trees by John--AA8UU and for Ken to assemble his 20 Meter loop antenna dedicated to 20 Meter FT8 Digital transmissions. Rounding off the antenna complement was an HF Vertical and Multiband Fan Dipole antennas that were put into service after special effort went into re-routing the antenna's transmission lines.



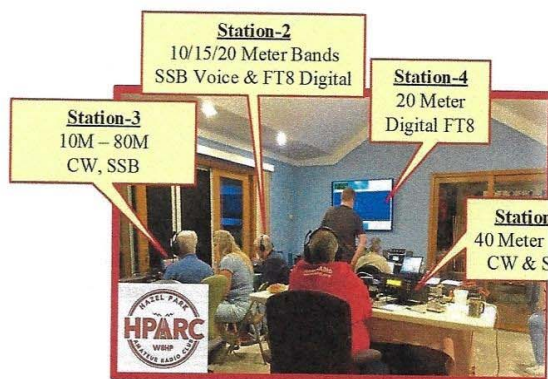
HPARC Field Day Antenna Complement



HF Vertical & Fan Dipole Antennas

With everyone working together, the team was able to make the On-the-Air start time of 2:00 PM EDT with 4 out of the 5 planned stations. Unfortunately, in the chaos of the moment, the GOTA station was dropped but in hindsight could have easily been accommodated as the setup went smoother than initially anticipated.

So, this year, the W8HP Field Day configuration was more along the lines of a Command Center rather than a Field Station. Three of the four operating positions were on folding tables setup around the perimeter of the recreation room. The fourth position, designated the W8HP-1 Anchor Station, was located on one end of a converted pool table in the center of the room. Sliding glass windows were on three of the four walls provided an abundance of natural light in addition to making it easy to run antenna and generator cables.



The Four Operating Positions

Catering

The Canteen was setup just outside the sliding glass door where Bill's QVS-Cuisines (W8QVS) oversaw Barbeque Operations. A continuous supply of grilled chicken, hotdogs, hamburgers and potato salad provided nourishment to the technical setup crew and station operators. An enormous bag of buttered popcorn filled the snack gap along with a large cooler packed with an assortment of chilled drinks.



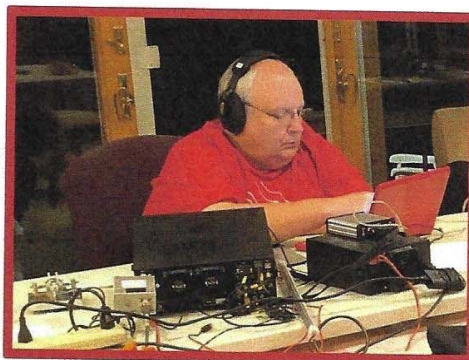
After providing the club an impromptu QTH, Ken-AD8M takes a minute to recharge at the Canteen.

On-Air Operations:

W8HP was On-the-Air continuously during the 24-hour exercise with 19 club members listed on the official sign in sheet who collectively made 936 QSO's earning just under 1,600 points.

Band conditions were less than ideal due to the lack of sunspots pushing down the Solar Flux Index to a mere 67 during the entire two-day contest. Even so, the club's overall score was good.

Mike--WD8S said, 40 Meters was the most active band and provided the majority of contacts. As W8HP's most popular operating mode, 40 Meter CW provided 395 QSO's earning 780 points followed by 40 Meter Phone with 255 QSO's earning one point each.



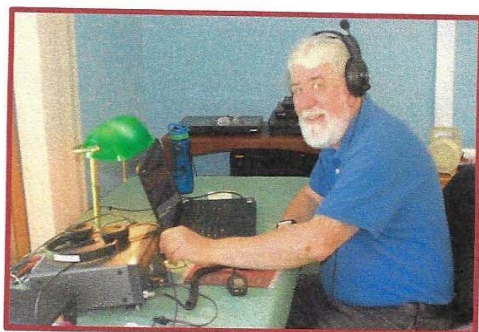
Mike--WD8S operating Anchor Station W8HP-1

Leading the pack again this year was Mike--WD8S operating the Anchor Station designated W8HP-1 consisting of his Elecraft K-3 transceiver working 40 Meter CW & Phone making 509 QSO's worth 872 points.



Technical Components of W8HP-3

W9NPI—Jerry came in second place operating W8HP-3 on 80 Meter CW during the overnight shift logging 98 Contacts earning the club 196 points. His station consisted of a Kenwood TS-690 on 80 Meters provided by John--AA8UU.



Wes—AC8JF working 40M & 15M

Wes--AC8JF operated W8HP-2 primarily on 40 & 15 Meter Phone because the last-minute change of venue caused unforeseen issues with the planned 80 Meter antenna.

Wes worked digital FT8 on 40 Meters as defense against inter-station cross talk interfering with his receiver that was most likely caused by so many antennas being in close proximity to each other making SSB especially difficult on 15 Meters.

Even with minimal sunspot activity causing quieter than normal propagation conditions, Reuven--KB3EHW was able a handful of contacts on 6 Meter single sideband.

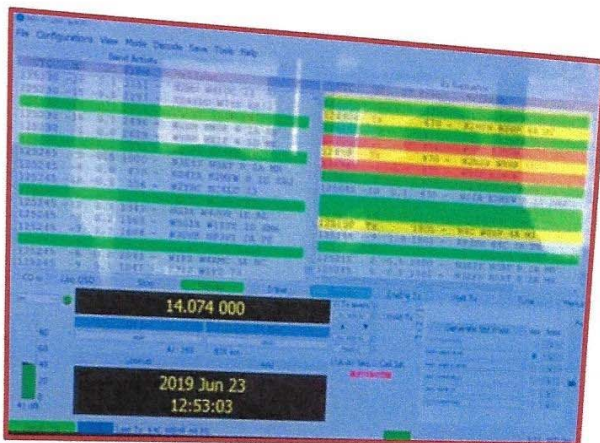


Joe—WB2ADX Operating W8HP-4 Digital FT8

Rounding things out on the digital side of the house was Joe—WB2ADX operating W8HP-4, a dedicated FT-8 station that made a 3rd Place showing by adding 91 contacts upping the W8HP scoreboard by another 182 points.

Operating around the clock, the digital FT8 operation remained on 20 Meters throughout the exercise but experienced a significant slowdown of activity on the band during the early hours of Sunday

morning. The WSJT-X software package was connected to an IC-7300 HF transceiver provided by KE3EHW. Attempts to feed logging data directly from WSJT-X into the N1MM logger was challenging because of interface issues between the two software programs. Feeding a 20 Meter Loop Antenna, the ICOM transceiver was operated at 100 watts Continuous Upper Sideband during each 15 second FT8 interval.



Digital FT8 Main Screen Wall Mounted Display

The longest DX using FT8 was a contact with Radio Operadores Del Este on KP3RE in Puerto Rico at just under 2,000 miles.

The second longest DX contact was with AB7HP, the Hewlett Packard club station in Boise, Idaho at 1,660 miles and in 3rd place was a QSO with the Lighthouse Amateur Radio Alliance K4LRA in Jupiter, Florida at 1,096 Miles on Sunday morning.



W8HP-4's Loop Antenna on 20 Meters looking East & West transmitting Digital FT8

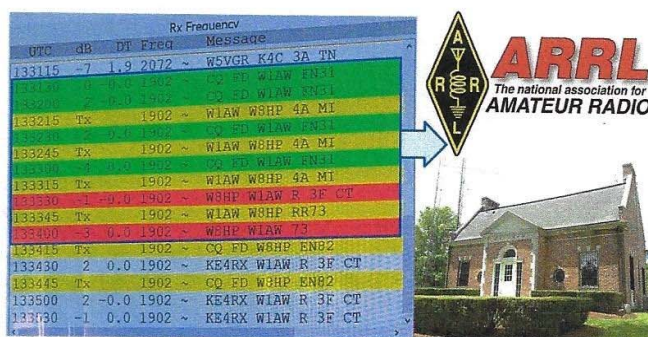
Locally, two noteworthy contacts were made with our friends at K8UNS—Livonia Amateur Radio Club and W8TNO—Oakland County Amateur Radio Society who completed FT8 exchanges with W8HP/4 as well.



Without a doubt, the highlight of the weekend was a QSO with the ARRL HQ Operators Club at W1AW in Newington, CT prompting High-Five's among the W8HP operators.

As the single most popular on-the-air event held in the US and Canada, the Hazel Park Amateur Radio Club along with 35,000 other radio amateurs who participated in this 87th Annual Field Day give a standing ovation to the folks at the ARRL who've been organizing this important event every year since 1933. Field Day has a far-reaching effect on the Amateur Radio community by creating a real sense of comradery among club members while at the same time raising public awareness about always being prepared for the unexpected.

Founded in 1914 the American Radio Relay League is the largest organization of Radio Amateurs in the US and dedicated to advancing the art, science and enjoyment of Amateur Radio through Public Service, Advocacy, Education, Technology and Membership.



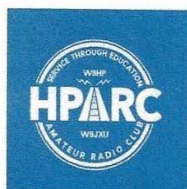
All things considered, the Hazel Park Amateur Radio Club did really well this year after rebounding from what very well could have been a total show stopper. Without a doubt, the club can look back on this event with a sense of accomplishment because during both

the setup and while on-the-air, everyone pulled together with grit and determination to overcome a daunting challenge while at the same time, having an enjoyable weekend. Many thanks to the following members for making HPARC Field Day a success:

AD8M—Ken
AC8JF—Wes
N8QVS—Bill
W8REL—Bob
WB8ATZ—Bob
N8LBS—Ed

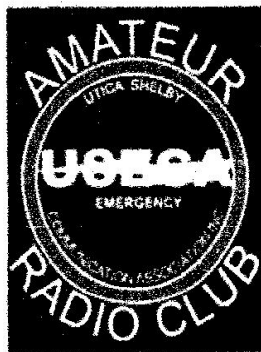
AA8UU—John
K8ABZ—Jim
WD8S—Mike
KE8LWV—Heather
K8GT—Gerry
WB8SBI—Jay
KE8ETI—Jim

WB2ADX—Joe
W9NPI—Jerry
KB3EHW—Reuven
KE8LXA—Lawrence
KE8LWX—Milton
KE8BZM—Will



W8HP & W8JXU
The Hazel Park Amateur Radio Club
"Service Through Education"
Hazel Park, Michigan

Written on 7/14/2019 by WB2ADX—Joe with contributions from AD8M—Ken, AA8UU—John, WD8S—Mike, AC8JF—Wes and KB5OO—Rick.



U.S.E.C.A. Hamfest 2019

Sunday, October 27, 2019

8:00 AM - 1:00 PM

Vendors may set up at 6:30 AM

Talk-in on K8UO Repeater 147.180+ 100 Hz CTCSS

United Food & Commercial Workers Local 876 Hall

876 Horace Brown Drive Madison Heights, MI 48071

(2 blocks south of 13 Mile Road, between Stephenson Highway & John R Road)

Questions? Ask our Swap Chairman:

Gary Simms, KI8M, email: ki8m@arri.net 586-322-2134

New & Used Sales, Radio test bench, VE test session *

DXCC card check available (Forms need to be filled out in advance. All bands & awards except 160m)

Great Door Prizes, food and Radio Raffle!

Swap admission is \$5.00 (Children under 12 are free) and each table is \$15.00

Tables should be purchased in advance. Limited tables may be available day of swap.

*Note: VE testing is between 9-10 AM. Bring \$14.00 cash, photocopies of existing licenses to CSCs. Originals not accepted. Two pieces of ID are also required, one of which must have a photo. You must also provide either your Social Security number or FRN. Pre-registration is preferred, but not required. Contact Alec, NF8X, nf8x@arri.net.

VENDORS! DO NOT ATTACH ANYTHING TO THE WALLS!!

Name _____ Call _____

Email _____ Phone # _____

Address _____

City _____ State _____ Zip _____

of Tables _____ # of Admission Tickets _____

Total Enclosed \$ _____

Special Requests _____

Checks for table reservations & admission tickets should be made payable to:
USECA PO Box 46331 Mt. Clemens, MI 48046

