



W8KEA

MARC



MIDLAND AMATEUR RADIO CLUB
PO BOX 1049, MIDLAND, MICHIGAN 48641
www.w8kea.org

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Secretary	Linda Hodges KC8MUD	(989) 486-3771
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Web Page Chairman	John McDonough WB8RCR	(989) 631-0178
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	Pat Mullet KC8RTW	(989) 828-6657
Swap Committee	Pat Russell W8PMR	(989) 832-2924
	Chuck Cribley WA8LQD	(989) 488-9409
	Keith Johnson KB8SOE	(989) 488-4337
	Pat Mullet KC8RTW	(989) 828-6657

LIFE MEMBERS

Don W8WOJ, Lee KC8ITI, Dennis N8ERF, Larry N8CGP, Denny WD8BPT, John WB8RCR

Midland County Public Service Net, Thursdays at 9 PM
W8KEA Repeater — 147.000 MHz+ PL 103.5 • W8QN Repeater — 443.325 MHz+ PL 103.5
W8KEA Digipeater — 145.090 MHz

Next ARES®/RACES Meeting — Thursday June 2, 2016, 6:00 PM
Law Enforcement Center, 2727 Rodd St.
Next CLUB Meeting — Thursday June 2, 2016, 7:30 PM
Salvation Army Bldg., 330 Waldo Ave.
Talk-in 147.000+

June 2016

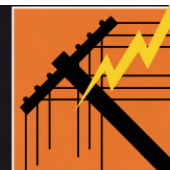
Static Discharge

John Wolters, W8QN

I am sorry to say I missed the May meeting due to a sudden family emergency but I hope you enjoyed Dennis Klipa's presentation. I know it will be useful in the future balloon tracking exercise. At the June meeting we will have a panel cover Mobile HF: Antennas, Radios, Setup, Problems and Fun Activities. If you have ever thought of using HF in your car, hopefully we can shed some light on the subject and/or answer some questions. The Dow Run and Dayton will have passed by the June meeting but the Swap and Field Day are yet to come. We are in the busy time of the year for the Club, so hope to see you at the June meeting. And last but not least, congratulations to Stan Rowe (K6VWE) for achieving the DXCC Honor Roll. I think I have 4 or 5 confirmed or at least I have a couple of QSL cards.

John Wolters, W8QN

**When all else fails...
...Amateur Radio!**



MARC Minutes

Linda Hodges, KC8MUD

The meeting was called to order by Keith KB8SOE at 7:10 pm. with 32 members and guests present. A sign-in sheet was passed around and introductions were made.

Please bring any corrections or additions to the secretary, Linda KC8MUD.

- Training— Dennis N8ERF —

MARC MEETINGS

Keith Johnson, KB8SOE, is in charge of special events and topics for the MARC monthly meetings. If you have any agenda items, or topics for the meetings, please contact Keith at (989) 488-4337, or via e-mail: kb8soe@arrrl.net.

COMMUNICATIONS

Pat Mullet, KC8RTW, is in charge of communications and publicity for the club. If you have any questions or ideas regarding these areas, please contact Pat at kc8rtw@arrrl.net

EXAMINATION SCHEDULE

Saginaw - All future VE testing will be done on an appointment basis only.

Corunna - Contact Thomas Carpenter (517) 579-0599 ki8as@charter.net.

Bay City - All future VE testing will be done on an appointment basis only.

Isabella/Clare Counties - Contact Gus Glass, K8GUS at k8gus@arrrl.net

With all examinations, your original license, a copy of that license, a second photo identification (drivers license, etc.) and a check or money order for \$15.00 made out to "ARRL/VEC" are required.

The address listed below gives testing sessions scheduled for Michigan. <http://www.arrrl.org/arrrlvec/exam-search.phtml?State=MI>

SUBMISSIONS FOR NEWSLETTER

Contact Pat Mullet, KC8RTW at kc8rtw@arrrl.net if you want to submit anything for the newsletter.

I need your items by the 15th of the month. Anything received after that may not make it into the newsletter for that month.

If you prefer to download the MARC newsletter from our web site, or have trouble with delivery via USPS, contact John, W8QN at w8qn@arrrl.net.

MEDIA HITS!

Have you seen or heard mention of the Midland Amateur Radio Club in the news or in the paper? If so, please forward it, or mention of it to either Pat, KC8RTW (kc8rtw@arrrl.net) or John (w8qn@arrrl.net)

"Why and How 'Fox Hunting' Training" was taught by Dennis so that the club members could participate in a Fox Hunting field exercise. As trained Fox Hunters we can now help track and find the weather balloon and its package after they have been released by the high school club. The primary launch dates are May 21st and June 4th. In case of inclement weather the backup dates are June 11th and June 17th.

- Dow Run—Keith KB8SOE— if you can help out during the Dow Run please let John W8QN know via [e-mail](#).

- Swap—Pat W8PMR— Saturday, June 18th. Some tables and possibly two commercial vendors have been contacted or have contacted Pat. Registration for the VE Sessions start at 10:00 and exams begin at 10:30 am. There are interesting seminars planned. Please let Pat know if you have a particular job you would like to do or help with. We always need help with set up on Friday night and clean up after the Swap.

- A motion on the floor to allocate \$400.00 for food for the Swap and Field Day made by Art

K0ACP and seconded by Lou N8LOU. Motion passed.

- Treasurer's Report Larry N8CGP— Thank-you to all who have renewed your dues.

- Proclamation—Pat KC8RTW — Reported on press releases, and a proclamation for Field Day written and voted on by the City of Midland.

- Field Day—John KB8PGW — June 25th and 26th. The club members voted to have this year's Field Day at Homer Township Park. More details to come.

- Presentation— John W8RCR — John gave a presentation including pictures on the State Level EOC Facilities. Very impressive buildings and equipment.

Net Controls:

May 12th Steve WA8Y

May 19th John W8QN

May 26th Dennis N8ERF

A motion to adjourn made by Larry N8CGP and seconded by Cindy WD8BDM.

Meeting ended at 9:00 pm.

Respectfully submitted,
Linda KC8MUD

My Two Cents

This is not the column I had planned writing this month.

I remember hearing WW9E's call on the Midland repeater late in the spring of 2005. Major Pat McPherson and his wife Carmella had just been transferred to take command of Midland's Salvation Army Community Center, and he'd just finished installing his vhf radio in his new home off Eastman Road. I was one of his first contacts. A jovial fellow, he soon joined MARC, and his presence at the meetings was enjoyable, to say the least—the room seemed to

Pat Mullet, KC8RTW

grow bigger when he entered, a large smile on his face. When differences with the Midland School District caused MARC to search for an alternative to meeting at the School Administration Building, Pat invited us to meet at the Salvation Army Building. When scheduling conflicts and rent increases at the Midland Fairgrounds forced us to move the Hamfest, he offered us the Salvation Army Gym.

The interaction wasn't all one-way. Due to his presence, MARC and its ARES contingent started

Amateur Radio is a Contact Sport!

working with SATERN, the Salvation Army's amateur radio branch. Pat secured a used RV and MARC provided the radios to turn it into the SATERN Communication Vehicle for the Eastern Michigan Division. Together, SATERN and the Midland ARC used it for Field Days, numerous demonstrations and events as well as drills and search and rescue missions.

Sadly, the McPherson's tenure in Midland was a short one, and they were transferred to Flint in 2008. They remained members in good standing of MARC for a time, and every so often WW9E's call would grace our repeater when

Pat was on his travels or he and Carmella would come up and visit.

In 2009, Pat retired from the Salvation Army, though he remained the Director of SATERN as a volunteer until a replacement was named to succeed him in 2011.

Many of his friends in the Midland area knew Pat had suffered with health problems for years, but he was enjoying his retirement. For my part, I was stunned when I received the email yesterday announcing that he'd become a Silent Key. Goodbye, my friend. You will be missed.

73, Pat, KC8RTW

ARES®/RACES John Wolters, W8QN

I want to thank Chuck Cribley (WA8LQD) for conducting a refresher training session on Amateur Radio Operators' involvement in the National Incident Command System. I got several good comments about the presentation. For those that could not make it we may have

a makeup session. Thanks Chuck for suggesting it.

For the June meeting I want to do a checkpoint on where we are with *FLDigi* and what the limitations are for others joining in. There also are some questions about settings and operations to cover.

Future Club Meetings

The following is a list of the future presentations that will be made at club meetings. We reserve the right to change, substitute, or change the date as the case requires.

June—Panel discussion of Mobile HF Radio. Radios, Antennas, Power, Setup and Fun. Salvation Army Building, 7:30 pm.

July—Use of HF on a Cruise

Ship, Salvation Army Building, 7:30 pm.

August—SDR Receiver Discussion and Demo, Larry Macklin, Salvation Army Building, 7:30 pm.

September—WSPR Demonstration, Will Halphen, Salvation Army Building, 7:30 pm.

October—Satellite Communications Basics

2016 MS Walk Wrap-up

I'd like to thank the following hams who came out to work at the MS Walk on Saturday 4/30 at Midland High School: W8QN, WD8BPT, N8ERF, KC8ITI, KC8HTH, N8EB, KC8YVF, N8XPS, K6VWE, N8WTQ, W8PMR, N8OSL, KD8DW, NO8U, NX8A, WA8Y, KD8QXL, KA9WCS, and KC8MUD. I hope I didn't forget anyone.

Special thanks to all for coming out earlier than they needed to due to my foul up of the start time for the event. I took the registration time as the walk start time and had everyone there earlier than they needed to be.

Obstacles to communications were overcome in the school as the shadows could not hear the repeat-

Upcoming Events

5/16	Dow Run
6/4-5	Museum Ships Event
6/27-28	Field Day
7/18-19	Tall Ships Weekend
8/27	Dirty Dog Run

Michigan Hamfests

6/4	Hudsonville
6/5	Chelsea
6/11	Newberry
6/18	Midland
6/19	Monroe
7/16	Shelby Township
7/16	Lowell
7/30	Lansing
8/6	Escanaba
8/7	Port Huron
9/10	Shelby Township
9/18	Adrian
10/8	Alpena
10/15	Muskegon
10/16	Kalamazoo
10/30	Madison Heights

Area Nets

SVARA; Mn, 147.24 MHz, 2100 ET
 Gladwin; Tu, 147.18 MHz, 2000 ET
 BAARC; Tu, 145.31 MHz, 2100 ET
 Isabella Co EOC 146.72 Mhz, 1900 ET
 Canadian Lks, Wed, 146.8, 2100 ET
 Edmore, Th, 146.8, 2000 ET
 MARC; Th, 147.00 MHz, 2100 ET
 District 3 ARPSC; Su, 145.31 MHz, 1830 ET
 Mi VHF Trffc Net; MWF, 145.15 MHz, 0900 ET
 TMMTN; Mon-Sat, 147.30 MHz, 2130 ET
 MACS; Sun-Sat, 3953 kHz 1100 ET
 MIARPSC; Su, 3932 kHz, 17:00 ET
 UPN; Sun-Sat, 3920 KHz, 17:00 ET
 MITN; Sun-Sat, 3952 kHz, 1800 ET
 QMN; Sun-Fri, 3563 kHz, 1830 & 2200 ET
 WSSBN, 3932 kHz, 1900 ET
 UP-ARES; Fr, 3932 kHz, 1930 ET
 GLETN; Sun-Sat, 3932 kHz, 2030 ET
 SEMTN; Sun-Sat, 145.33, 2215 ET
 MIDTN - 1900 local Tu, Th, Sat 3.583
 +waterfall, Oivia 8/500

MARC MERCHANDISE

T-Shirt	S- XL	\$10
	2X - 3X	\$12
Long-Sleeve Tee	S- XL	\$12
	2X - 3X	\$15
Crew Sweatshirt	S- XL	\$18
	2X - 3X	\$20
Hoodie	S- XL	\$24
	2X - 3X	\$26
Zipper Hoodie	S- 3X	\$30
Winter Coat	S- XL	\$42
	2X - 3X	\$45
Spring Jacket	S- XL	\$32
	2X - 3X	\$35
Hat		\$10

All garments are royal blue with white print and embroidered name and number. Extended sizes available.

Please call Bill Lee at B&C Sportswear with questions @ (989) 839-4537.

ers very well.

Al, KA9WCS was pressed to make runs with his vehicle for his assigned staff member.

Dennis, WD8BPT said that

folks he had in the SAG vehicle commented positively about our organized communications overheard on his radio.

Thank you,
Chris Rose
KB8UIH

Dow Run Volunteers Still Needed

The Dow Run is Saturday May 21st. First race starts at 7 am sharp so everyone needs to be on their assigned location by 6:45 am.

I will be in the parking lot on Collins between Rodd and George starting at 6 am to hand out T-shirts and assignments. (Also the

start of all the races) Please come by and get your assignment and then head on to your location.

If you haven't already signed up and you want to help, please let me know if you can. Regardless, come down the morning of the 21st and I will have an assignment for you.

If you want to help but don't have a radio we can supply one. Please contact me ahead of time.

Thanks to all and hope to see you the morning of May 21st.

John Wolters
w8qn@arrl.net

42nd Midland Hamfest, June 18th

Pat Russell, W8PMR

The 42nd Annual Midland Hamfest will be held at the Salvation Army Family Center (330 Waldo Rd, Midland, Mi) on June 18th, 2016. The show runs from 8:00 am to noon, admission is \$5, and tables are available for \$5. Trunk sales are also \$5. Food will

be available.

There are seminars in the classrooms starting at 11:00 am.

A VE session will be held at 10:30 am (signup begins at 10:00 am.) Please bring an ID, and a copy of your present license, if applicable.

We need help setting up on Friday, June 17th at 5:00 pm. Tear down will occur after noon on Saturday.

Please join us in a fun day of radio, swapping, and information exchange!

SATERN Founder Pat McPherson, WW9E, SK



Salvation Army Team Emergency Radio Network (SATERN) Founder and past National Director Pat McPherson, WW9E.

(ARRLWeb—05/14/2016)
[UPDATED 2016-05-15 1949 UTC]

Salvation Army Team Emergency Radio Network ([SATERN](http://www.satern.net)) Founder and past National Director Major Patrick E. "Pat" McPherson, WW9E, of Coloma, Michigan, died on May 14 at Lakeland Medical Center in St Joseph, Michigan, where he'd been admitted on May 10 with breathing difficulties. After serving as SATERN Director for more than 23 years, McPherson, an ARRL member, stepped down 5 years ago. He [founded](#) the disaster response and relief arm in June 1988. SATERN became an official Salvation Army program in 1998, and McPherson was formally appointed as its national director.

ector.

Now an international organization, SATERN is dedicated to providing emergency communication and other assistance following disasters and emergencies and has responded to natural disasters, fires, and air crashes. After the September 11, 2001 attacks, SATERN volunteers were on duty in New York, Washington, and Pennsylvania. SATERN volunteers work in cooperation with other organizations, including ARES, in responding to emergencies and disasters. The SATERN Net meets weekdays on 14.265 MHz at 1500 UTC.

McPherson served the Salvation Army as the Heartland Division Disaster Coordinator (Central Illinois and Eastern

It's Not Your Grandfather's Amateur Radio!

Iowa) for 2 years, and as the Disaster Services Director for The Salvation Army Metropolitan Division (Chicago and 11 surrounding counties) for 15 years.

“During my tenure in the Metropolitan Division, we were able to build a state-of-the-art disaster center, complete with a 60,000 square foot warehouse, docks, EOC, emergency conference area, training area, and communications, including amateur, commercial radio, satellite TV, and a sophisticated phone system,” McPherson recounted on his QRZ.com profile.

He had served earlier in non-disaster-related roles for The Sal-

vation Army in Kankakee, Pekin, and Springfield, Illinois; Oskosh, Wisconsin; Marquette, Midland, and Flint, Michigan, and Dubuque, Iowa.

McPherson said he got into Amateur Radio as a way to stay in touch with family and friends throughout his various transfers around the Midwest. His wife, Carmella, is KB9YSQ, and his brother Larry is KA0QEO. He was also active in ARES, RACES, and SKYWARN. He was especially fond of operating CW. “It represents to me a challenge through the unknown, accomplished because I was motivated to become an Amateur Radio op-

erator,” he said in his profile. “With retirement, I can now focus on the SATERN program, run CW from the field, and enjoy all of the friends made through the years via Amateur Radio.”

At the time of his death, McPherson was to be presented with The Salvation Army Certificate in Recognition of Exceptional Service — a national-level award acknowledging outstanding, distinguished and significant achievement in or for The Salvation Army. It will be awarded posthumously.

Funeral arrangements are pending. — *Thanks to Bill Feist, WB8BZH, for some information*

Dale's Tales for May, 2016

(ARRLWeb—5/1/2016) Greetings everyone, welcome to "Dale's Tales" for May, 2016.

May is here and soon we'll be enjoying the Dayton HamVention®. ARRL will host the ARRL EXPO again this year and we will include about 20 exhibit booths. We will also include booths from our friends at the Radio Society of Great Britain, the Deutscher Amateur Radio Club, Japan Amateur Radio League, and the Qatar Amateur Radio Society. The League is also presenting a number of forums this year. On Friday, we will host “The ARRL Laboratory- Behind the Scenes”, and “Amateur Radio and the Law”. Saturday will include “ARRL National Parks on the Air” and the “ARRL Member Forum”. Sunday's forums are “Maximizing your ARRL Field Day Effort” and the “Amateur Radio Disaster and Emergency Communications Panel”.

As the Great Lakes Division is the hosting division, I will have the opportunity to moderate the ARRL Member Forum and have booked the League's “Heavy Hitters” as guest speakers. We will hear commentary from ARRL President Rick Roderick K5UR, ARRL CEO Tom

Gallagher NY2RF, 1st VP Greg Widin KØGW, 2nd VP Brian Milesosky N5ZGT and our International VP Jay Bellows KØQB. These people are on top of the latest happenings in our hobby and this is the perfect setting for everyone's introduction to the League's new leadership team. We will also include a member Question and Answer Session. Last year's Forum was a full house, and with our new team in place this year, this is an ideal opportunity to introduce and discuss new ideas and plans. Every one of our guest speakers will also be spending time at the ARRL EXPO. Do take to opportunity to stop at the EXPO's Meet-and-Greet area to say hello.

We plan to have many of our Headquarters staff on hand as well. They will be present at the EXPO Booths to discuss your ideas and concerns and help you with your special interests. Here is the EXPO booth line-up: ARRL Development/Foundation, Education and Technology, ARRL Lab, Radiosport/DXCC, National Parks on the Air, Public Service, ARRL VEC, ARRL Store, ARRL Logbook of the World, NTS, Advertising, RFinder,

ARRL News, Amateur Radio Parity Act, Scouting, Discover the HF Experience, US Bank and Liberty Mutual Insurance, Field Organization /Ohio Section, Youth Rally, and IARU. Remember the dates, May 20 - 22.

AMATEUR RADIO PARITY ACT: Our Legislative Action Team is continuing its efforts to achieve passage of these bills in the House and Senate. You can find the latest information at <http://www.arrl.org/amateur-radio-parity-act>. Thanks to so many of the Great lakes Division hams who have sent letters supporting the legislation. If you have not done so, you can find a sample on the listed web page. Please be sure to route your letters through ARRL Headquarters: ARRL, Attn: Amateur Radio Parity Act grassroots campaign, 225 Main St., Newington, CT 06111. Our Legislative Action Team will hand deliver the letters, thus avoiding delays caused by the postal inspection system in DC.

73, See you on the bands.

Dale Williams WA8EFK

Director

ARRL Great Lakes Division

wa8efk@arrl.org

Explore the World with Amateur Radio!

FEMA Daily Operations Briefings, Other News, Alerts, Available by E-Mail

(ARES E-Letter—April 20, 2016) Thanks to a tip from ARRL Emergency Preparedness Manager Mike Corey, K1IU, I signed up last year to receive FEMA daily operations briefings by e-mail. These briefings contain a quick summary of national weather forecasts, U.S. fire weather outlooks, and hazards outlooks for three-day periods (examples: much above normal temperatures, heavy rain or snow, severe weather). A Space Weather report covers geomagnetic storms, solar radiation storms, sun spot activity, and a world map and graphs of impacts on HF communications and radio blackouts.

A table on disaster requests

and declarations is furnished in the report. For example, in the current briefing, there are three declaration requests being processed: one for flooding in Louisiana, another for severe drought in the Marshall Islands, and one for severe storms and flooding in Illinois. Another map of the U.S. shows which FEMA field offices are open. Two tables on FEMA readiness - one on deployable assets/teams, and the other on national/regional teams - round out the report.

The briefing is, well, brief — a lot of valuable information is presented mostly graphically, rendering the report easy and quick to scan and read. I can get through

it in just a minute or two. I recommend to ARES, RACES and other program members to sign up for this daily FEMA mailing for national, regional and local situational awareness.

Other FEMA Mailings

I've signed up for other FEMA mailings, too. I receive updates to emergency and major disaster declarations, CERT program updates, and a host of other topics. There is a wealth of information that would be of interest to ARES leadership and registrants. Readers can learn more and sign up for e-mailings [here](#). Check it out! — Rick Palm, K1CE

Technical Topics and Information

(ARRL Contest Update—April 20, 2016) Tom, WA9YI, sent in a link to the story of [Iowa State University's research into "metaskin" that can absorb RADAR energy](#). "Not sure what RF applications there might be, but then we never are until we fiddle with it for awhile, right? Wrap the neighbor's grow-light operation in it to block RFI? Next best thing to a tin-foil hat?"

♦ How soon before we see an "SSB Skimmer?" [Google](#), [IBM's Watson](#), and other providers have real-time speech-to-text (STT) services available right now. Will someone build an application utilizing STT in time for, say, Sweepstakes?

♦ The European Space Agency [used a 3D printer to fabricate a](#)

[14.5 GHz satellite antenna](#). After printing the part, it was coated with copper to give it its electrical properties. This might provide some ideas for methods to "print" other signal-chain items for UHF+ frequencies, for example interdigital filters.

♦ A researcher has figured out a way to do [full-duplex radio using just silicon](#). Claiming that it subverts Lorentz Reciprocity, the [CMOS circulator](#) has potential for making higher data rates faster and cheaper. (Ward, N0AX)

♦ When putting up wire antennas, ropes and knots are important. This [video can help you learn a few new ones](#). (Ward, N0AX)

Technical Web Site of the Week - <http://k6tu.net/?q=TerrainProfiles>

You've heard about terrain analyses, and you know you should probably do them to better understand your shack's location - [Stu's website](#) can step you through everything you need to do to get going with N6BV's High Frequency Terrain Analysis (HFTA) program. K6TU's website will even assist with the tedious part, the generation of the terrain profiles for your station location, by automatically pulling data from the [National Elevation Dataset](#), or the Shuttle Radar Topography Mission database based on your latitude and longitude. Furthermore, he's built a script to automate the running of HFTA over a 360-degree sweep at your QTH, to generate antenna model files.

More Technical Topics and Information

(ARRL Contest Update—May 4, 2016) Jim, AD1C, has written an ADIF File splitter, to 'burst' a single file into multiple files based on transmitted QTH. Each

of these sub-files can be signed and uploaded to LoTW using a different station location. He's tested it with N1MM and WriteLog - see his [website](#) for more in-

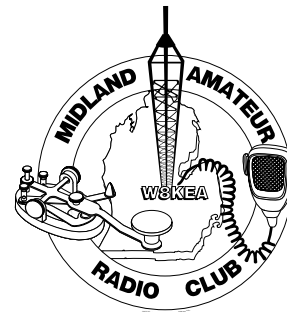
formation and support for other loggers.

♦ Many [amateur radio projects are incorporating Arduino-compatible computing elements](#), and

Michigan Hamfest Weekend
June 18, Midland / June 19, Monroe

Midland Amateur Radio Club

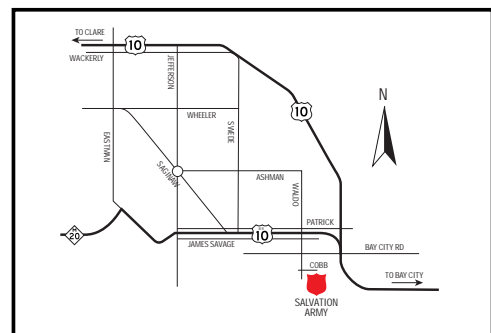
Midland Hamfest '16



June 18, 2016
Salvation Army Building
330 Waldo Ave.
Midland, Mi

Set-Up at 6:30 AM
Show Runs 8:00 AM - Noon

Admission \$5.00
Tables \$5.00
Trunk Sales \$5.00



Featuring:

- FCC Exam
- New & Used Amateur Radio Equipment
- Parts, Coax & Connectors
- Large Selection of Vacuum Tubes
- Seminars/Demos
- Refreshments



An ARRL
Sanctioned
Hamfest

Talk-in: 147.00 MHz - Midland Repeater
For More Information & Reservations Mail

MARC Hamfest, PO Box 1049, Midland, MI 48642
or Contact

Chuck Cribley, WA8LQD at (989) 488-9409 email: chuck.cribley@live.com
or

Pat Russell, W8PMR at (989) 832-2924 email: russell_p@chartermi.net

Field Day 2016



HAM RADIO OPERATOR
ON THE AIR

The Midland Amateur Radio Club
will be operating in the field from
Homer Township Park
2:00pm Sat., June 22 'til noon, Sun, June 23.

Set-up will be in the pavilion area.

Field day is most popular on-the-air operating event
in Amateur Radio. Watch as Local Hams participate
in an emergency communications exercise in a
contest setting. Come watch the fun.

You can even make a few contacts yourself
under the watchful eyes of an experienced Ham!

All are Invited!

For more information, contact John Tallman at (989) 859-0364

these gems are available in many different variations and sizes. A new [AA-battery sized Arduino board](#) has just been developed. This could be a nice way to add additional functionality into an existing piece of equipment.

♦ By using an EEG to analyze brain activity while presented with a standardized sets of images, [humans can be differentiated from one another with 100% accuracy](#). As it's not yet available commercially, we still have to remember to type "OPON" for the foreseeable future.

♦ Computers keep getting

faster and faster, and smaller and smaller, but there's a theoretical limit to how fast a computer can ever be, based on $E=mc^2$, and the Heisenberg uncertainty principle. This is [Bremermann's limit](#). Could an effective DSP module to completely remove grow light noise ever be implemented in hardware weighing less than a 3AG fuse? Knowing the complexity of the algorithm, and the mass of the fuse, Bremermann's can provide a back-of-the-envelope check for infeasibility.

♦ The characteristics of the "impossible" EM Drive, also

known as the '[resonant cavity thruster](#),' which uses microwaves to seemingly accelerate a spacecraft, have been linked to the already observed "[fly-by anomaly](#)" in [this Technology Review article](#).

♦ Here are three sisters who '[contest](#)' by [writing computer code](#). And they win.

♦ An [accidental discovery at the University of California at Irvine](#) involving conductive nanowires with special coatings may end up dramatically increasing the number of battery charge/discharge cycles.

MARC Vital Statistics

Memberships Expiring in May

NONE

Memberships Expiring in June

KB8UIH
N8KRL

N8NGT
NX8A

WA8KJR
WA8Y

WB8FYR
WD8ODG

Memberships Expiring in July

NONE

Members in Good Standing

AC8QF
AC8RT
K0ACP
K8RI
K8VB
K8VFO
KA9WCS
KB8PGW

KB8TBI
KB8UIH
KC8CTG
KC8IHB
KC8ITI
KC8MUD
KC8RTW
KC8TQS

KD0JHX
KD8IWB
KD8MMH
KD8MRB
KD8QAM
KD8QXK
KD8ULA
KD8ULT

KE8CTH
KE8DOP
N8CGP
N8DHF
N8ERF
N8JBW
N8KRL
N8LBF

N8LOU
N8NGT
N8WTQ
NX8A
W8PMR
W8QN
W8WOJ
W8ZSX

W8ZSX
WA8KJR
WA8Y
WB8FYR
WB8RCR
WB8WNF
WD8BPT
WD8ODG

Current Active Club Membership 48

Birthdays Celebrated in May/June

KC8KOC 5/5
KD8QAM 5/5
KC8YHQ 5/11
KD8FSI 5/12
KD8MRC 5/12
KB8RAO 5/18

KD8MQZ 5/18
KD8ULA 5/18
KC8MUD 5/19
K8CCE 5/20
WD8AXR 5/25
WD8SDX 5/27

W8LSS 6/2
N8LOU 6/8
K8RI 6/16
KB8VSS 6/21
KD8IWG 6/23
K8HP 6/24

N8POX 6/25
KC8URV 6/28
WD8ODG 6/30
KD8MMH 6/30

Anniversaries Celebrated in May/June

KD8OLC and Lori 5/14
KB8QWQ and Kate 5/16
KD8EUR and Julie 5/17
N8CGP and N8KRL 6/5
N8KFE and Cheryl 6/12

KB8VSU and Barbara 6/13
WA8LQD and Kathy 6/16
N8STF and Mary 6/16
N8POX and Kris 6/17
W8LSS and WD8AXR 6/19

N8UPP and KC8AVI 6/21
WB8WNF and Becky 6/22
NX8A and Kristina 6/24
K8VFO and Mayumi 6/27
KB8PGV and Connie 6/27

K8CCE and Clarice 6/28
KD8HID and Marcia 6/28
AA8EJ and Beverly 6/28

Information is from data received 4/17/2016

Any corrections or questions contact Larry, N8CGP

Amateur Radio. . . We Do That!



Pat Mullet
Newsletter Editor
171 E. Orchard Ave.
Shepherd, MI 48883

If you desire to join the Midland Amateur Radio Club, the dues are \$20 per year for an individual membership. A family membership is available for an additional \$5 per year which covers all of the individual's family members. Family members must reside at the same address as the primary member to be eligible for the family member rate. The membership dues help to cover the operating expenses of the Club, and its radio systems. Membership includes Autopatch privileges on the W8KEA repeater (147.000+), voting privileges at MARC meetings, and a monthly newsletter. Please supply the following information:

Name: _____ Callsign: _____ License Class _____
Address _____
City _____ State _____ Zip _____
Home Phone (____) _____ Work Phone (____) _____
E-mail address _____
Spouse: _____ Callsign: _____ License Class _____
Birthday: (mm/dd) _____ Anniversary: (mm/dd) _____
Desired newsletter format: Paper copy via USPS _____ or via e-mail _____

Are you an ARRL Member? Y/N Do you want an ARES Application? Y/N

We request this information so we can communicate with you regarding MARC business, and periodically send you newsletters and congratulatory birthday & anniversary greetings. We do not sell this information nor will we knowingly publicize private information without your permission. Information that is publicly available may be distributed to Club members for various purposes, including membership lists, without prior notification.

You may give this completed form to the MARC treasurer, or you may mail it to:

MARC, PO Box 1049, Midland, MI 48641-1049