



W8KEA



MARC

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

President	Kevin Martin KD8QAM	(989) 513-0100
Vice President	Mark Rodgers, KC8GRQ	(517) 672-1060
Secretary	Linda Hodges KC8MUD	(989) 374-0032
Treasurer	John Wolters W8QN	(989) 832-9122
W8KEA Station Trustee	Larry Macklin N8CGP	(989) 631-7748
Midland County EC/RO	John Wolters W8QN	(989) 832-9122
Midland County AEC	Chris Rose KB8UIH	(989) 832-7179
Newsletter Editor	Pat Mullet KC8RTW	(989) 828-6657
Newsletter Publisher	Art Peters KOACP	(989) 400-3745
ARRL Liaison	John Tallman KB8PGW	(989) 859-0364
Web Page Chairman	John McDonough WB8RCR	(989) 631-0178
Club Historian	Stan Rowe K6VWE	(989) 837-7252
Quartermaster	Lee Hodges KC8ITI	(989) 374-0032
Public Information Officer	Pat Mullet KC8RTW	(989) 828-6657
Field Day Committee	Mark Rodgers, KC8GRQ/Ch	(517) 672-1060
	Ryan Lughermo KB8RCR	(989) 835-5227
	Bill French, AB8JF	(989) 835-5562
	Dorie French, N8WTQ	(989) 835-5562
	Cindy Hall, KD8JQX	(989) 496-7566
	Jack Hall, KD8JQY	(989) 496-7566
	Steve Linley, WA8Y	(989) 687-7681
	Pat Mullet KC8RTW	(989) 828-6657
Swap Committee	Keith Johnson KB8SOE / Ch	(989) 488-4337
	Pat Mullet KC8RTW	(989) 828-6657

LIFE MEMBERS

Larry K8SQB, Don W8WOJ, Lee KC8ITI, Dennis N8ERF

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 7, 2012, 6:00 PM

Next CLUB Meeting — Thursday June 7, 2012, 7:30 PM

Salvation Army Building 330 Waldo Rd.

Talk-in 147.000+

June 2012

Static Discharge

Kevin Martin, KD8QAM

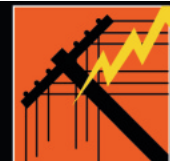
Another month closer to Field Day. I hope everyone can make it out.

I haven't been able to get on HF this past month, but I have been monitoring the repeater quite a bit.

There are a few things that I will be searching for at our Hamfest next month. There should be plenty to look at and talk about. Should be a good time for all. See you all there.

-Kevin, KD8QAM

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



The meeting was brought to order at 7:40 pm by Kevin KC8QAM with 32 in attendance. A sign-in sheet was passed around and introductions were made.

Any corrections or additions to the newsletter should be brought to the attention of the secretary.

- Treasurer's report- John W8QN-

Thank-you to all who renewed their memberships.

- EC/RO Report- John W8QN- Discussion included severe weather, Midland County paper exercise and the remote repeater. The Edenville Water Tower remote will be up and running in two to three weeks.

- MS Walk-Chris KB8UIH- Thank you to all who helped. Event went well with around 440 participants.

- Field Day- Bill AB8JF - Three sites have been offered: Midland Towne Center (same as last year), Chippawasse Park (near the Tridge) and Bill and Dorie's house. Discussion followed. A motion on the floor to go to Chippawasse Park. Discussed and tabled. Motion made again and defeated. A motion on the floor to go to the Midland Towne Center. Seconded and passed.

- Dow Run- Lee KC8ITI- Gaining more operators every day. Packets and assignments will be available on the day before the event.

- Swap- Keith KB8SOE- Please take swap fliers with you on your rounds. Help is always needed for jobs throughout the day and for Friday night set-up. Contact Keith if you can put on a seminar or knows of someone who would like to put on a seminar.

- Extra Class-Lee KC8ITI- Going

well on Monday and Wednesday night.

- Sunday Dow Marathon- John W8QN- This is in conjunction with the Crim, runners go from Dow Diamond to Bay City on Sunday May 20th. Contact John W8QN to help. Your time commitment can be as little or as much as you can offer.

- Newsletter publisher- Keith would like to have someone take over the job of newsletter publisher. After a discussion Art K0ACP has offered to do that job. Please consider getting your newsletter via the internet to cut down on delivery costs.

NET Controls;

May 10th Keith KB8SOE

May 17th John W8QN

May 24th Kevin KD8QAM

May 31st John KB8PGW

- Tower Pictures- John W8QN and Del W8FYR- Pictures and discussion about the Antenna and how it's mounted on the Edenville Water Tower. Fun to look at and interesting to hear about.

- Tower discussion- Mark KC8GRQ- Mark is planning to build a tower and is looking to buy or have donated a 70 to 100 foot tower for his project.

Respectfully submitted,
Linda KC8MUD
MARC Secretary

MARC MEETINGS

Mark Rodgers, KC8GRQ, 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 Mark at (517) 672-1060, or via e-mail: kc8grq@yahoo.com

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@arrl.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@arrl.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.arrl.org/arrlvec/exam-search.phtml?State=MI>

SUBMISSIONS FOR NEWSLETTER

Contact Pat Mullet, KC8RTW at kc8rtw@arrl.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 Keith, KB8SOE, at kb8soe@arrl.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@arrl.net) or Kevin (cherryredirocz@sbcglobal.net)

My Two Cents

Pat Mullet, KC8RTW

I don't know if it's just because the weather's getting nicer, or the good luck fairy decided to loosen her purse strings, but things are looking better on the ham radio front here at my QTH.

Thanks to the generosity of Bob Burgess, KC0CJC, I was able to play in the Michigan QSO party. Bob was good enough to loan me his spare hf rig, a Kenwood TS-140S, which worked quite well.

Having attended the Cadillac Hamfest Saturday, May 5th, courtesy of Ryan, KB8RCR, I can now return Bob's rig to him. I picked up an Icom IC-718 from Steve, WA8Y—I had to go all the way to Cadillac to get a radio from Midland! I've been playing with the radio, trying to learn all the bells and whistles, and it seems to be an outstanding rig. I've got

the cable for the soundcard interface on order, so I should have it up and running on both phone and digital this next weekend.

While picking up a couple other treasures at the Swap, I was able to meet a number of the members of the Canadian Lakes Amateur Radio Club. I've been checking into their Wednesday night nets on the Edmore repeater for a while now, and we'd all been looking forward to having an "eyeball" QSO.

As you'll note elsewhere in this newsletter, the Club has settled on a Field Day site for this year's event. We'll be returning to the Midland Towne Center Mall, site of the former Farmer Jack. I should have a little "friend" that should make hanging antennas a bit easier. At

the May meeting, I unveiled a pneumatic antenna launcher I'd been working on. Constructed from schedule 40 PVC pipe and fittings, the heart of the device is a modified lawn sprinkler system valve which allows the reservoir of compressed air to push a tennis ball trailing fishing line out the barrel and to a height of some 200 feet—should be plenty enough to toss

lines over the parking lot's light poles.

As I've said, for the last few weeks the radio gods have smiled on me. I've a few more projects to keep me busy before I have to get started with the PR for both the Swap and Field Day, and who knows? Maybe I'll have a chance to get on the air.
73, Pat, KC8RTW

ARES®/RACES John Wolters, W8QN

Well, we tried to do some training on the use of *Outpost for Packet Radio* but unfortunately *Outpost* and JNOS (packet Digi) would not talk to each other. Look for another attempt at training at a later meeting. Tentative plan for the June meeting is discussion and demonstration on the use of *FLDigi*.

We are moving into the busy part of the weather season for Skywarn®. Please remember that if we are under a severe WX warning that the 147.00 machine will be conducting a formal net for reporting WX events. We are looking for reports of winds 40 mph or greater (leaves stripped from trees), Hail, Flooding and Tornados. We are not looking for reports of lightning, heavy rain, clearing skies or non-severe wind gusts. Your cooperation and participation during these events are appreciated.

John Wolters, W8QN

2012 MARC Hamfest News

This year's swap is now right around the corner. It will be held again at the Salvation Army Building, 330 Waldo Ave. in the city of Midland on Saturday, June 16th. Doors will open to the public at 8:00 am and we will open to vendors at 6:30 am. We still have open tables for vendors that wish to join us.

I will be detailing a request for help during for Friday setup and Saturday operations at the next club meeting. I'm also looking for a volunteer to help support

any seminars that we will have. Please let me know if you can help. Also, if you are attending the Dayton Hamvention, please feel free to twist the arms of some of the vendors you come across and invite them to Midland.

You can find updated information on attending vendors as well as our current swap flyer on the website: <http://www.w8kea.org>.

Keith, KB8SOE
www.kb8soe.com

MS Walk Wrap-up Chris Rose, KB8UIH

This year's MS Walk proved to be another successful event, with upwards of 440 walkers participating. Safeguarding

the route, 20 amateur radio operators kept watch for accidents and signs of distress amongst the walkers.

Amateur Radio is a Contact Sport!

Upcoming Events

5/18	Dow Run
6/23-24	Field Day
7/5-8	Lupton

Michigan Hamfests

6/2	Hudsonville
6/3	Chelsea
6/9	Newberry
6/16	Midland
6/17	Monroe
7/28	Lansing
8/4	Escanaba
8/19	Lapeer
8/25	Owosso
9/8	Wyoming
9/16	Adrian

* Denotes date based on 2011 event

Area Nets

SVARA; Mn, 147.24 MHz, 2100 ET
Gladwin; Tu, 147.18 MHz, 2000 ET
BAARC; Tu, 145.31 MHz, 2100 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 - 2000 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.

The following hams volunteered an aggregate of 90 hours to help in the fight against MS: Chris Rose, KB8UIH; Dennis Caney, WD8BPT; Linda Hodges, KC8MUD; John Wolters, W8QN; Dennis Klippa, N8ERF; David Wallick,

N8LBF; Mark Rogers, KC8GRQ ; Lee Hodges, KC8ITI; David Schnieder, N8ERL; Joe Tuscher, N8OSL; Kevin Martin, KD8QAM; Bob Byler, K8RWB; Dorie French, N8WTQ; Ron Huss, KC8YVF; Larry Macklin,

N8CGP; John Tallman, KB8PGW; Randy Schnieder, KC8FYQ; Bill French, AB8JF; John Williams, KD8HID; Emmet Bengry, W8EAB.

The Midland Amateur Radio Club would like to thank all who participated.

Field Day Plans in Motion

MARC will be returning to the Midland Towne Centre — perhaps better known as the old Farmer Jack store — parking lot again for Field Day this year. We're hoping that last year's wading pond won't reappear so we won't be so crowded or subjected to so many mosquitoes. We're also hoping to spread out the antennas a bit more to minimize interference between modes. Details such as layout of the site and parking are still being worked out by the Field Day committee.

The Committee will need volunteers to help set up and tear down, as well as those willing to volunteer to operate or

bring their gear to help in the cause. Because we'll be in such a public place this year, and since the Loons will be playing a home game Saturday night, we expect more in the way of foot traffic in and around the site. Volunteers will be needed to help show folks around and explain things, as well as make certain no one gets into trouble by grabbing the wrong wire. If you'd like to help out, contact Mark Rodgers, KC8GRQ. And don't forget our traditional pot luck dinner Saturday night!

In 2009, a record 2,642 clubs, groups and individuals across the US and Canada submitted score-sheets to the

ARRL, who sanctions and conducts the exercise. These logs recorded participation by 37,592 individuals all over the world--over 1.36 million two-way contacts were reported during the all-too-short 24-hours of the event. Last year, MARC made 693 contacts and received a score of 2,920, working as a 5A (five radios, emergency power.) With any luck, the bands will be in better shape this year so our score should be a bit more impressive.

You may consult the flyer appearing in this newsletter for times and directions, and of course, talk --in will be on the 147.000MHz repeater.

Michigan Section Family Outing

Jay Nugent WB8TKL

The 14th Annual ARRL Michigan Section Summer Family Outing will be held Thursday July 5th through Sunday July 8th, 2012, at the Woodlands Conference Center and Campgrounds, 318 S. Sage Lake Road, Hale, MI 48739 (17 miles east of West Branch) It is free to attend!

This year's event will focus heavily on "Fox Hunting" - an important and fun part of Amateur Radio used in locating hung transmitters and used in many Search and Rescue operations.

Campsites (improved and unimproved) as well as beds in the Bunkhouse have a nominal charge (see the webpage, <http://www.sectionouting.info>, for details). Motels and Bed-and-Breakfasts are available in West Branch just a short

drive away. Meals are Pot-Luck but a main course will be provided. Donations are accepted to help cover costs.

The Michigan Summer Outing is a 4-day fun-filled event hosted by your ARRL Michigan Section Staff and paid for TOTALLY from donations, involving fun events for the whole family! Camping, RVing, canoeing, horseshoes, volleyball, softball, boating and swimming facilities are available all day every day of the outing for your pleasure.

There will be games, campfires, and sing-a-longs for all to enjoy. There will also be informative seminars on Friday and Saturday for any who wish to participate. Women's, kids, and non-Ham activities are planned, so there is something for the whole family!

Take some time off, meet the Section Staff, talk about Ham Radio and have a good family time at this event. Attire is casual, of course, and so is everyone's attitude!

See the website, but pre-registration is NOT necessary, so don't let that stop you from attending. Come for one, two, three, or all for days. Just show up and we will take good care of you and we're confident that you and your family will have a fun time.

We hope to have you join us!

— Jay Nugent WB8TKL

Michigan Section "Summer Family Outing" event coordinator



ARRL Field Day
JUNE 23 & 24, 2012
www.arrl.org

QST Digital Edition Launch Approaching

(ARRLWeb—05/11/2012) We are excited about being able to offer ARRL members access to a brand-new digital edition of QST. We expect to launch the digital edition on or about May 23. If you have checked the Notification box on your Member Profile, you will be no-

tified by e-mail as soon as the digital edition becomes available. As a bonus, ARRL members will also have access to the digital archive – the digital editions beginning with the January 2012 issue.

Our thanks to those who have beta tested the digital edition. Your input has

been invaluable as we have worked to improve and enhance the digital edition.

For more information, please see the Digital Edition FAQ. <<http://www.arrl.org/digital-qst-faq>>

FCC Seeks Higher Vanity Call Sign Fee

(ARRLWeb—05/07/2012) The FCC released a *Notice of Proposed Rulemaking* (NPRM) on May 4, seeking to raise the fee for Amateur Radio vanity call signs. Currently, a vanity call sign costs \$14.20 and is good for 10 years; the new fee, if the FCC plan goes through, will go up to \$15 for 10 years, an increase of 80 cents. The FCC is authorized by the *Communications Act of 1934 (as amended)* to collect vanity call sign fees to recover the costs associated with that program.

The vanity call sign fee has fluctuated over the 14 years of the current program -- from a low of \$11.70 in 2007 to a high of \$70 (as first proposed in the FCC's 1994 *Report and Order*). The FCC said it anticipates some 14,300 Amateur Radio vanity call sign "payment units," or applications, during the next fiscal year, collecting \$214,500 in fees from the program.

Vanity Fee Due for New, Renewal Applications

The vanity call sign regulatory fee is payable not only when applying for a

new vanity call sign, but also upon renewing a vanity call sign for a new term. The first vanity call sign licenses issued under the current Amateur Radio vanity call sign program that began in 1996 came up for renewal six years ago.

Those holding vanity call signs issued prior to 1993 are exempt from having to pay the vanity call sign regulatory fee at renewal, as Congress did not authorize the FCC to collect regulatory fees until 1996. Such "heritage" vanity call sign holders do not appear as vanity licensees in the FCC Amateur Radio database.

Amateur Radio licensees may file for renewal only within 90 days of their license expiration date. All radio amateurs must have an FCC Registration Number (FRN) before filing any application with the Commission. Applicants can obtain an FRN by going to the ULS and clicking on the "New Users Register" link. You must supply your Social Security Number to obtain an FRN.

ARRL Processes License Renewals, Including Vanities

The ARRL VEC will process license renewals for vanity call sign holders for a modest fee. The service is available to ARRL members and nonmembers, although League members pay less. Routine, non-vanity renewals continue to be free for ARRL members. Trustees of club stations with vanity call signs may renew either via the ULS or through a Club Station Call Sign Administrator, such as ARRL VEC.

The ARRL VEC will handle vanity license renewals for ARRL members for a small fee (license renewals for members with non-vanity call signs are free). Visit the Call Sign Renewals or Changes web page for complete instructions on how to have the ARRL renew your license for you or for how to do it yourself. License application and renewal information and links to the required forms are available on the ARRL Amateur Radio License Renewal web page. The FCC's forms page also offers the required forms.

Senate Approves Two New FCC Commissioners, Commission to Be at Full Strength

(ARRLWeb—05/08/2012) Six months after President Barack Obama nominated Jessica Rosenworcel and Ajit Varadaraj Pai to the Federal Communications Commission, the Senate confirmed their appointments on Monday, May 7. Rosenworcel, a Democrat, fills the seat vacated by Michael Copps who retired from the Commission earlier this year; her term runs through June 30, 2015. Pai,

a Republican, replaces Meredith Attwell Baker, who left the FCC in June 2011; his term runs through June 30, 2016. Once Rosenworcel and Pai are sworn in, the FCC will be at its full complement of five Commissioners.

According to various reports, the two will be sworn in by the end of this week. Their nominations had been held up since December in an unrelated dis-

pute between the FCC and Senator Chuck Grassley (R-Iowa) over agency approval of LightSquared's wireless application. When Grassley received the sought-after documents two weeks ago, he lifted a hold on the nominations.

The FCC has been down two commissioners since Baker and Copps left the Commission, leaving the agency with only three commissioners: two Demo-

Explore the World with Amateur Radio!

crats and one Republican. Only three sitting Commissioners may be members of the same political party. At present, Chairman Julius Genachowski and Mignon Clyburn are Democrats while Robert McDowell is the lone Republican on the Commission.

"I want to congratulate Ajit Pai and Jessica Rosenworcel on their Senate confirmation and welcome them to the Commission," said FCC Chairman Genachowski in a written statement. "They bring deep knowledge of our sector and proven track records of accomplishment. President Obama made an outstanding choice in their nominations, and I look forward to working with them."

Rosenworcel is the Senior Communications Counsel for the United States Senate Committee on Commerce, Science, and Transportation, working for Senator Jay Rockefeller IV since 2009,

and previously for Senator Daniel K. Inouye from 2007-2008. Before joining the Committee, she worked at the FCC from 1999-2007, serving as Legal Advisor, and then Senior Legal Advisor to Commissioner Copps (2003-2007), Legal Counsel to the Bureau Chief of the Wireline Competition Bureau (2002-2003) and as an Attorney-Advisor in the Policy Division of the Common Carrier Bureau (1999-2002). From 1997-1999, Rosenworcel was a communications associate at Drinker Biddle and Reath. She received a BA from Wesleyan University and a JD from New York University School of Law

Pai is a partner in the Litigation Department of Jenner & Block LLP. Immediately prior to joining Jenner & Block, he worked in the Office of the General Counsel at the FCC where he served as Deputy General Counsel, Associate

General Counsel and Special Advisor to the General Counsel. Previously, Pai served as Chief Counsel to the US Senate Judiciary Committee's Subcommittee on the Constitution, Civil Rights and Property Rights, and as Senior Counsel at the Office of Legal Policy at the US Department of Justice. Pai also served as Deputy Chief Counsel to the US Senate Judiciary Committee's Subcommittee on Administrative Oversight and the Courts, and as Associate General Counsel at Verizon Communications. He began his career as a law clerk to Judge Martin L.C. Feldman of the US District Court for the Eastern District of Louisiana, and then as an Honors Program trial attorney in the Telecommunications Task Force at the US Department of Justice's Antitrust Division. Pai holds a BA from Harvard University and a JD from the University of Chicago.

Technical Topics and Information

(ARRL Contest Update—April 25, 2012) If you are putting in a tower base that will place significant tension on the anchor bolts, follow US Tower's lead and use a large, straight bolt with two nuts on the concrete end. With the two nuts on the bolt, spoil the threads below the lower nut (smash them with a hammer and chisel, for example) to prevent the nuts from working loose before the concrete sets. (Thanks, Steve K7LXC and Hank KR7X)

- John K6MM provided a great overview of log analysis tools in his Visalia International DX Convention presentation, "Post-Contest Log Analyzers". You can learn a lot about your log

and use that information for doing better in the next contest! < <http://www.nc-cc.cc/pdf/K6MM-IDXC2012.pdf>>

- What's the deal on Arduino? How-duino! But you can find out in this Make magazine online introduction to the growing family of Arduino microprocessor development boards. < <http://www.instructables.com/id/Intro-to-Arduino/>>

- Portable contest operators - such as for Field Day, roving, and run-and-gun adventures - will find a lot of good information on the use and care of telescoping poles about half way down the page. < <http://www.allfishing-buy.com/Surf-Rods.htm>> (Thanks, Steve

NU7T)

- The May edition of the Potomac Valley Radio Club (PVRC) newsletter has a good article by Tom K3AJ on raising small towers with a tow truck. There is also a good article on Samuel Morse by John K3TN. < <http://pvrc.org/Newsletters/may12.pdf>>

- Contesters drill through walls quite a bit - hanging plaques and certificates, no doubt. Make cleanup a little easier with this idea for using coffee filters from Make magazine's online tip collection. < <http://blog.makezine.com/2011/10/20/tape-up-a-coffee-filter-to-catch-drill-dust/>>

More Technical Topics and Information

(ARRL Contest Update—May 9, 2012) EDN magazine recently published "High-performance HF transceiver design: A ham's perspective" by contestant and WRTC2014 co-chair, Doug K1DG. The article goes into detail about the environment in which contest-grade receivers must not only operate but excel. There are several graphics of the spectrum during the 2012 CQ Worldwide 160 Meter CW contest including a

waterfall display that will keep you busy trying to read it for a while. < http://www.edn.com/article/521690-High_performance_HF_transceiver_design_A_ham_s_perspective.php>

Jack K6JEB posted this video showing his technique for winding toroids by using a "stitching pony" made from a lacquered or plastic chopstick. < <http://www.youtube.com/watch?v=GT44U10WqRA&hd>

=1>

- Portable operators who hike or camp will enjoy Charlie W6JJZ describing his design for a TFD (Trail Friendly Doublet) in this old Adventure Radio Society Sojourner article. (Thanks, Ted AA5CK) < http://adventure-radio.org/ars/pages/back_issues/1998_text/0698_text/ffd.html>

- Two notes on everybody's favorite building material - here's an article from

Michigan Hamfest Weekend
Midland-June 16/Monroe-June 17

MIDLAND AMATEUR RADIO CLUB

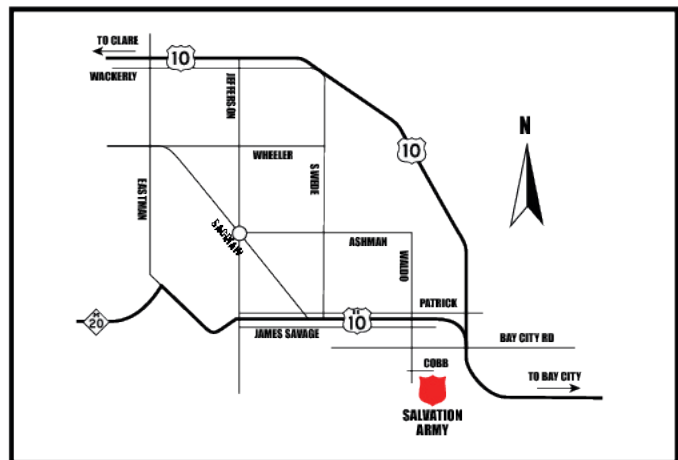


MIDLAND HAMFEST

June 16, 2012
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

Keith Johnson, KB8SOE at (989) 488-4337 email: kb8soe@arrl.net



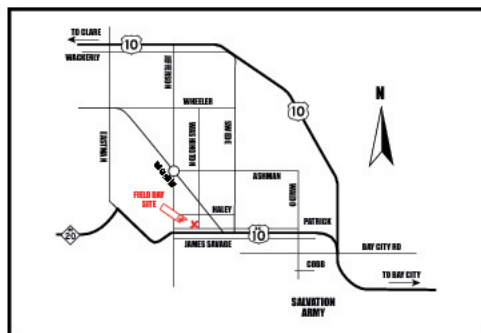
The most popular on-the-air operating event in Amateur Radio. Gear up and get in on the action!

Participate in your local ARRL Field Day June 23-24

Come See Amateur Radio in Action

Midland Amateur Radio Club
operates under simulated
emergency conditions
2:00 pm Saturday, June 23 to
Noon, Sunday, June 24
Corner of Washington and Patrick

Public is Welcome



www.arrl.org/FieldDay

Instructables on how to bend PVC pipe and there are lots more ideas in the comments. And those plastic plumbing fittings you were looking for that join three pipes in a right-angled corner? They're called "90° side outlet elbows (slip)" "Slip" means for unthreaded connections. Enjoy. < <http://www.instructables.com/id/Bending-PVC-pipe-Just-because-you-can/>>

• On Marconi's birthday, John AE5X, "...decided to build a coherer since all the parts were already on hand. I

don't understand the physics of it but it is a neat little device...seems to have a range of about a foot w/o an "antenna". After making the video I found that dipole-like leads attached to the coherer and QRP spark transmitter increased the range to 8 feet." < <http://www.ae5x.com/blog/2012/04/25/my-video-tribute-to-marconi-and-branly/>>

Technical Web Site of the Week - Tim K3LR reports that, "W6NL has sent me an update to his original work. It is

labeled as - Updated Moxon document 2012 and W8WWV has contributed a wonderful paper on various NEC model results of the W6NL 2 element 40 meter Moxon. It is labeled as - W8WWV investigates W6NL Moxon 40 meter models. You can find all four posted documents relating to the W6NL Moxon in the Station Engineering folder of k3lr.com.

Swap 'n' Shop

For Sale: Yaesu FT897D. \$700.

Wanted to Buy: Power tubes such as but not limited to 4CX series, 3CX400 and larger. 4-250 and larger, 3-500 and larger. Sockets for same and particularly for 4CX1500B and 4CX3000A7. Old Repeater amp that used a Push pull pair

of tubes. I could use some 7/8" to 1.5" Helix with connectors, but need a minimum of 200' for each run. Looking for HV power transformers in the range of 2400, 2600, 2800, and 3000 VAC, 2KVA and up as well as 800VAC to 1 KV AC for screen supplies. 6V@10A

(4CX1500B), 9V @ 8.5-9A (FU728F), 9.0V @ 41.5A (4CX3000A7), and 10V@10A, filament transformers. High power tuning caps including vac variables.

Contact Roger, K8RI (K8RI@rogerhalstead.com)

MARC Vital Statistics

Memberships Expiring in May

KD8QAM

Memberships Expiring in June

KC8IHB
KD8LVZ
KD8OKX

N8CGP
N8KRL
NX8A

WA8KJR
KA8HQW
WD8SDX

Memberships Expiring in July

AB8TJ
KA8EZT

KC8BOP
KD8MRB

W8QN

Current Active Club Membership 54

Birthdays Celebrated in May/June

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

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

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

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

Anniversaries Celebrated in May/June

KD8OLC and Lori 5/14
KB8QWQ and Kate 5/16
KD8EUR and Julie 05/17
N8CGP and N8KRL 6/5
N8KFE and Cheryl 06/12
KB8VSU and Barbara 06/13

WA8LQD and Kathy 6/16
N8STF and Mary 6/16
N8POX and Kris 06/17
W8LSS and WD8AXR 6/19
N8UPP and KC8AVI 06/21
NX8A and Kristina 6/24

KB8PGV and Connie 6/27
K8CCE and Clarice 06/28
KD8HID and ??? 6/28
AA8EJ and Beverly 6/28

Information is from data received 4/5/2012

Any corrections or questions contact John, W8QN

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