



W8KEA

MARC



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

| | | |
|----------------------------|---------------------------|----------------|
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LIFE MEMBERS

Jack W8PHG (SK), Larry K8SQB, Don W8WOJ, Lee KC8ITI, Raleigh W8QOI (SK)

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, 2011, 6:00 PM

Next CLUB Meeting — Thursday June 2, 2011, 7:30 PM

Salvation Army Building, 330 Waldo St.

Talk-in 147.000+

June 2011

View from the Top of the Tower

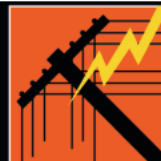
Lee Hodges, KC8ITI

It's June so lace up your track shoes. Looking at the calendar, right now every weekend but one in June has a club activity planned. And of course, Linda and I have a wedding to attend in Maryland on the non-scheduled weekend. As the various chair people contact you for your support, please consider lending your time and talents in support of any or all of these events. The success of these events and your club depend on your participation.

Thanks to Jack, NX8A for his presentation on SAR structure and how amateur radio fits into SAR efforts. Jack is also working up an idea to set up a SAR spotter net modeled after our Skywarn® nets to set the boundaries of any search efforts. If you would like more information on amateur radio and SAR contact Jack.

Thanks to all of you who helped with the MS Walk this year. It was a good day with no problems to mention. The route wasn't set until late on Friday due to the flooding in the Farmer's Market area. Chris, KB8UIH was scrambling on Saturday morning to de-

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



cide where we needed radio support on the route but we all made it to our assignments in plenty of time. The feedback from the event organizers is that we did a great job for them again and they are looking forward to working with us again next year.

The first event in June that has requested our participation is the Dow

MARC MEETINGS

Chris Rose, KB8UIH, 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 Chris at (989) 832-7179, or via e-mail: kb8uih@arri.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@arri.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@arri.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.arri.org/arrivec/exam-search.phtml?State=MI>

AUTOPATCH

All Midland Club members have autopatch privileges. If you do not have the instructions, contact N8CGP for a copy. Please do not pass on your copy.

SUBMISSIONS FOR NEWSLETTER

Contact Pat Mullet, KC8RTW at kc8rtw@arri.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 Michael, KB4EIZ, at kb4eiz@yahoo.com.

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@arri.net) or Lee, KC8ITI (kc8iti@arri.net)

Run on June 4th. I talked to John, W8QN last week and the route has been set for this year's race. For this event, it seems that no matter how many radio operators we have we could always use a few more. If you have already let John know that you can help out, thank you for your help. If you haven't decided to participate yet, I hope you will come out and give us a hand. It doesn't matter if you haven't had a lot of experience we can always find a spot where you can make a contribution to our effort or pair you up with one of our more experienced operators. John will be passing out information and assignments at the next meeting. As always if you need more information or would like to volunteer give John a call.

We are halfway through the class sessions for our Extra class. All of the students that were out of town when we started are now busy catching up on the presentations they missed. We've had some rough patches in our lessons but the instructors have tried their best to smooth out the bumps. At times, it seems that the instructors are learning as much as the students. This just reinforces the old adage "If you really want to master a subject endeavor to teach it to someone else." I expect all of our students to be in great shape to take and pass the extra examination at our VE session on swap day.

The 2011 Midland Amateur Radio Club swap is on June 18th and is progressing albeit with some twists and turns this year. Last month, I mentioned a couple of those turns. Due to the efforts of Captain Matt O'Neil, the dual booking issue has been resolved so the building is totally ours on swap day. On the second issue on having DXCC card checkers at the swap, I've pretty much struck out. I have sent emails to ARRL headquarters, division and section staff without much success. So, if someone asks you about having checkers at the swap, inform them that it probably won't happen this year. At the last meeting, the discussion about the swap centered on the price of gasoline and the lack of vendor response. In fact, some of our past vendors have bowed out for this year. Keith, KB8SOE has been in contact with these vendors to find out why they aren't attending and what we can do to get them here with their wares. On the brighter side, The two swaps I've attended this year were well attended with some new local vendors taking the place

of the larger regional vendors. Also, Keith is firming up the agenda of presentations for the swap. Its still not too late to get your ideas concerning swap considered. Just run them past Keith. Remember the best advertising is word of mouth so talk up our swap when you get a chance.

The Field Day Committee has recently met to firm up the details of our Field Day event on June 25th and 26th. Pat KD8IVZ told me that they are still looking at a couple of different sites and expect to select a site in the near future. We used some of the Field Day equipment with the Michigan QSO party and it came to our attention that it wouldn't hurt to drag out the barrels of club equipment and go through them before we attempt to use them again. Keep your ears open for an impromptu work party to get things ready for Field Day. Look for more information on Field Day as it becomes available.

Again, we are approaching our club's busy time of the year with lots of activities and events that need your support. As the people who have volunteered to act as event coordinators ask for your help be sure to sign up for their activities. Your time and radio skills will be greatly appreciated.

I'll wrap it up for this month. Linda and I did make it to the Cadillac swap although we were a little late getting there. It seems when it was time to hit the road Saturday morning my car wouldn't start. Of course, we were at the lake and most of my tools were back here in Midland. The closest help was my son in Wiedman so I gave him a call and he came over with a well-stocked toolbox. After about a half-hour and a lot of head scratching we determined that the battery terminals were loose. In fact, we decided that when they replaced the battery terminals last year, they replaced them with ones that were too large and the clamps couldn't be tightened enough to make good connection all the time. Anyway, my son got us on the road although when things like this happen you always wonder if you can get the car started the next time. We arrived in Cadillac a little after 9 AM and I immediately placed our swap flyers on the table for people to pick up. I made a pass or two through the swap picking up a couple of items that were on my short list and marking those items that might be

worth dickering on. Just before 10 o'clock, my daughter Brandy, KC8TXS came rushing up with the news that the VE team was short on people to give exams and could I please help out. Of course I couldn't refuse so by the time we had dotted all the "i's" and crossed all the "t's" for the exam session it was just past noon and all of the vendors had pretty much packed up for the day. I guess some things are just not meant to be. On the bright

side, I saved a lot of money. As a side note, I didn't have any trouble starting the car the rest of the trip and the next day Joe and I put on new battery terminals that were the correct size for the battery posts. I haven't had any problems starting the car since then. The moral of the story is everything needs checked out every once in a while to see if they need attention and check the simple things first.

Best regards, Lee – KC8ITI

MARC Minutes *Linda Hodges, KC8MUD*

The meeting called to order by Lee KC8ITI at 7:35 P.M. with 29 in attendance. A sign-in sheet was passed around and introductions were made.

- MS Follow-up Chris KB8UIH – Wonderful day, good help. We impressed the MS people. Thanks to all who helped.

- Treasurer's report -John W8QN- John did April's and May's treasurer's report. Thank-you to all who renewed their club dues.

- EC/RO Report- John W8QN- Chris KB8UIH was Net control on the weather activity this month. Half-inch hail reported and a suspected wall cloud with funnel.

- There is a training exercise on the same day as the June 4th Dow Run.

- The Michigan QSO Party was fun. They made 300,000 points, contacted 65 counties and 42 states in a twelve-hour period. Discussion followed.

- VE session- Lee KC8ITI- Several people upgraded their licenses and kept the VE crew busy.

- Dow Run – John W8QN- June 4th is the day, The sign-up sheet was passed around. John will contact those who were not able to sign-up at the meeting. Assignments can be picked up at the meeting before the event.

- Swap- Keith KB8SOE – No firm commitments yet from a big vender except Dentronics Still working on recruiting other possible vendors. Vendor letter goes out next week. Salvation Army staff and facility does an excellent job for us. Thanks to Captain Matt for solving booking problem with the lady who wanted the use of the building. Discussion followed on possible seminars. Please see Keith with your ideas for seminars and/or vendor possibilities. There still has not been a QSL card checker found.

- Field Day- Pat KD8IVZ- Some plans on hold until further discussion. A meeting has been planned for Wednesday to discuss the Field Day plans.

- Extra Class- Lee KC8ITI- Lee has been enjoying himself on Monday and Wednesday night with five eager students.

- QST Magazine- Larry N8CGP- Larry explained how he paid the bill for the QST at the library. Ryan KD8RCR will do an inventory on books that are at the library.

- Lupton-John WB8RCR- On July 7,8,9, and 10th there is a camping outing with the main events taking place on Saturday at the Woodlands Campground. Camping sites are available or a cabin if you prefer that. Ask John for more details.

- Commercial Licenses- John WB8RCR- AB8SY Commercial Radio License Testing by appointment only. Contact Charles AB8SY for details.

- Public Service Honor Roll- Ryan KD8RCR – Ryan still needs your information for PSHR activity.

- Public service activities – John W8QN –

MS Walk Frankenmuth, May 14th

Swan Valley HS May 15th

Dow Run June 4th

Crim Aug. 28th

- On Wednesday, June 22nd there is a County Disaster Exercise during the day. See John, W8QN for details.

- Edenville Repeater Tower – Del WB8FYR- Discussion about Club Repeater on new Edenville Water Tower.

- HR 607 - Pat KC8RTW- 440 frequency may be taken from Amateur use.

- Middle School Projects- Denny WD8BPT- Denny's school kids' projects include an AM receiver, a wireless mike and a foxhunt. Anyone who would like to help make radio come alive for the

Upcoming Events

| | |
|-----------|-------------------|
| May 20/22 | Dayton Hamvention |
| Jun 4 | Dow Run |
| Jun 25/26 | Field Day |
| Jul 7-10 | Lupton |

Michigan Hamfests

| | |
|--------------|---------------|
| Jun 4, 2011 | Hudsonville |
| Jun 5, 2011 | Chelsea |
| Jun 11, 2011 | Newberry |
| Jun 18, 2011 | Midland |
| Jun 19, 2011 | Monroe |
| Aug 6, 2011 | Escanaba |
| Aug 14, 2011 | Lapeer |
| Aug 27, 2011 | Shiawasee |
| Sep 18, 2011 | Adrian |
| Oct 16, 2011 | Kalamazoo |
| Oct 23, 2011 | Sterling Hts. |

* denotes tentative date based on 2010 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
W Mi Trffc Net; MWF, 145.15 MHz, 0900 ET
TMMTN; Mon-Sat, 147.30 MHz, 2130 ET
MACS; Mon-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

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.

middle school students next year please let Denny know.

- GL Section Convention- John WB8RCR- At the Finley Hamfest.

- Memorial Day Parade- Bill AB8JF – Talked about club participation in this event.

- Free Stuff Lee KC8ITI- Free Magazines on front table.

NET Controls:

May 12th Ryan KB8RCR

May 19th Pat KC8RTW

May 26th John W8QN

June 9th Jack NX8A

- Presentation- Jack NX8A - SAR Spotters.

Respectfully submitted,
KC8MUD Linda
MARC Secretary

My Two Cents

Pat Mullet, KC8RTW

I broke down a couple of months ago and bought a refurbished Dell mini-tower running Windows XP—the yard sale box I'd brought home proved to be a bust, and I'd simply grown tired of fighting the old Win98 machine I'd inherited. It certainly was nice being able to load programs onto the hard disk and have them run first time out of the gate. Of course, one of the first things I wanted to do was install a variety of soundcard digital software so I could do some exploring on the HF bands.

I'd determined early on that I'd want to run a secondary soundcard for my amateur radio activities. Firstly, because I wanted to be absolutely certain that none of the characteristic Windows sounds made it on the air, even though I'd set up the computer to prevent that. Secondly, I wanted to reserve the motherboard's soundcard for other programs, such as my WX warning program, that may be running concurrently with my HF activities.

Sometime earlier, I'd ordered a USB external soundcard—resembling a flash drive, it was cheap, and if it didn't work, I wouldn't be out much. I plugged it in,

connected the interface cables and fired up *MixW*. I dialed into the 40 meter PSK frequency, and the waterfall display lit up with the railroad tracks I'd read about. Unfortunately, the waterfall showed a galaxy of speckles as well, and the program seemed to be making a lot more errors in reception than it should. I'd heard that these USB cards could be noisy when it comes to the digital-modes, so I hid myself off to eBay looking for a decent internal soundcard.

A short search yielded a Sound Blaster Live! card for a good price, and within the week, it was housed in my XP box.

Reconfiguring the software to use the new card, I fired everything up again. What a difference! Since the Live! card had a line-in jack, I didn't have to fight input levels, and the railroad tracks shown on the waterfall display nestled in a uniformly blue field—no noise!

Wanting to get a bit more comfortable with matters digital before sending my first CQ, I started playing with the other programs I'd installed, especially *Fldigi*. I'd heard good things about this program, but it wouldn't install on my

Win98 box, so I'd never played with it. I fired it up, configured it to use the Sound Blaster card... and saw nothing. The waterfall was blank, and a pop-up window informed me that I had a "trx_trx_receive loop: Sound error:Unknown error."

A quick Google search showed that others had experienced this when operating *Fldigi* using a secondary soundcard, but no one had a fix for the problem. Oddly enough, they had been able to get *Fldigi* working properly, but only by running *MixW* or *Digipan* in the background. So I tried it, and viola!, I had railroad tracks on the screen, so I'm a happy camper.

I'm still playing around with the programs, trying to learn their idiosyncrasies, but with any luck, I should be racking up digital QSOs before the end of the month. And by the way, if you've come across a solution for the *Fldigi* configuration problem, please drop me a line.

Well, that's enough for this go-round. Hope to hear you on the air.

73, Pat, KC8RTW

ARES®/RACES

John Wolters, W8QN

The May meeting was used primarily to recap the Skywarn® net and activity the previous week. One thing that was highlighted was the need for more people to volunteer as net control during a weather activity.

There are 2 primary groups that we

conduct the Skywarn® net for. 1) Midland County Emergency Services coordinator and 2) National Weather Service.

Severe Weather reporting criteria for the NWS are;

Tornadoes

Funnel Clouds

Waterspouts

Hail: ½ inch or larger

Wind gust over 40 mph

(leaves striped from trees)

Flooding that threatens property or covers roads

ARRL Field Day
JUNE 25 & 26, 2011
www.arrl.org



Midland County includes all of the above and;

Downed lines of any kind
Obstructed roads
Limbs or trees down

When reporting please remember to give the closest cross streets and/or the street address, and the city or township. For some reason the NWS can't figure out where Homer and M-20 is unless you tell them Homer Township.

We also talked about net etiquette.

We will activate an informal net when the NWS has placed the county under a weather watch and severe wx is in an adjacent county. During this time we will take net check-ins and allow general discussion of what is expected.

When severe wx is observed or a severe wx warning is issued the net will go to a formal mode where only the reporting criteria listed above should be reported. No additional check-ins will be asked for. If you have not checked-in but observe severe conditions please do

not hesitate to call net control.

Do not tie up the net to relay what you have seen on TV, Radar, or heard on the radio. This information is already available to the reporting agencies.

Remember to keep you reports short. If we need more detail than you pass on in the initial report we will ask for it. There may be others that have severe wx to also report.

Thanks for your help and cooperation during a Skywarn® event.

John Wolters, W8QN

Dow Run

The Dow Run is Saturday June 4th. The race course will start closing at 7:30 with the 5K run starting at 7:55 so please be at you post by then. I will pass out T-shirts and assignments at the June 2nd meeting. If you are not able to attend

and have signed up to work the Run, please meet at the gathering point in the parking lot on Collins between Rodd and George by 7 am. I will have your t-shirt and assignment there. If you have signed up to help and cannot attend

please let me know so I can make other arrangements for your assignment.

See you there.

John Wolters, W8QN
989-832-9122

FCC Seeks to Raise the Fee for Vanity Call Signs

(The ARRL Letter—May 5, 2011)
The FCC released a Notice of Proposed Rulemaking on May 3, seeking to raise the fee for Amateur Radio vanity call signs. Currently, a vanity call sign costs \$13.30 and is good for 10 years; the new fee, if the FCC plan goes through, will

go up to \$14.20 for 10 years, an increase of 90 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 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. Read more at <<http://www.arrl.org/news/fcc-seeks-to-raise-the-fee-for-variety-call-signs>>.

Operating Tip

(ARRL Contest Update—May 11, 2011) Clean audio saves time! *Tip #1* - the power meter needle should move in sync with your voice peaks, not go to maximum and stay there because you

have the processor maxed out. *Tip #2* - yelling makes things worse. *Tip #3* - clean audio will cut your QSO time by two-thirds. Why? Because everything doesn't have to be repeated and your call

sign gets through correctly more often on the first call. Higher average power does not also mean higher intelligibility - too often quite the opposite!

Technical Topics and Information

(ARRL Contest Update—April 27, 2011) George VE3ERP's great package of software ham radio calculators, HAM-CALC, has run into some significant issues in working with Win7 with the GWBASIC routines used by HAM-CALC's many components. If you could provide guidance or assistance in this area, George is open for suggestions.

A method of increasing the efficiency of an inverted L or vertical antenna is to raise the point of maximum current well above ground as in this "Double L" antenna for 160 and 80 meters by K2LQ < http://www.yc-cc.org/Articles/double_l.htm>. The same idea could be applied to 80 and 40 meters. (Thanks, Rik van Riel)

Remember when oscilloscopes took two people to lift them and had to be rolled around on a cart? Well, Chris KL9A found that there's an app for that now as exemplified by this handy gizmo from Oscium < <http://gizmodo.com/#%215791826/oscium-can-turn-your-ios-gadget-into-the-worlds-smallest-oscilloscope>>. Jack Ganssle of

Explore the World with Amateur Radio!

Embedded System Design - also known as N3ALO - took a good look at the latest offering in more traditional scopes from Agilent in his column "Scoping Out the New Scopes"< <http://www.eetimes.com/discussion/break-points/4214706/Scoping-out-new-scopes>>.

Jim W7RY summarized some of the issues associated with dissimilar metals being used in amateur installations. "Copper should never touch galvanized material directly without proper joint protection. Water shedding from the copper contains ions that will wash away the galvanized (zinc) tower covering. Stainless steel can be used as a buffer material. However, be aware that stainless steel is not a very good conductor. If it is used as a buffer between copper and galvanized metals, the surface area of the contact should be large and the stainless steel should be thin. Joint compound should also be used to cover the connection so water cannot bridge between the

dissimilar metals. This is why you want to use tinned wire (or suitable transition material) not bare copper when connecting to a galvanized tower."

Regular US rural type mail boxes are observed to work well for protecting outdoor gadgets as they have to seal well. The few drain holes let the water out so that they will protect most anything once the door is closed. (Thanks, Mike K5WMG)

Tom KK3OQ has posted videos < <http://www.youtube.com/user/HamRadio2008>> of homebrewed PCB fabrication, PIC chip experiments, high powered LED projects, Arduino applications, QRP kit builds, and Electronics Tourism.

More and more reports surface of "temporary" rope guys stretching or failing, leading to tower "incidents". Luckily, the reports don't mention fatalities but there have certainly been some near misses, such as to regular climbers Don K4ZA and John W2GD. Don't mess

around - use steel or Phillystran guys if you or someone else is going to be on that tower. Field Day is coming and the temptation to take short cuts "just for the weekend" is strong - be safe!

Machinist's Workshop magazine tested penetrating oils for break-out torque on rusted nuts. They "scientifically rusted" nuts and bolts, treated them with various commercial penetrants and one home brew mixture, and then measured the torque required to remove them. The results?

- No penetrant - 516 pounds
- WD-40 - 238 pounds
- PB Blaster - 214 pounds
- Liquid Wrench - 127 pounds
- Kano Kroil - 106 pounds

A homebrew mix of automatic transmission fluid and acetone was also reported to have worked but that is disputed in several online discussions. (Thanks, Tim K3LR)

ARRL Michigan Section Summer Family Outing

Greetings fellow Amateurs,

The Michigan Section would like to take this opportunity to remind everyone that the 13th annual "ARRL Michigan Section Summer Family Outing" is just a short 10 weeks away and the schedule of events, activities, and forums are coming together nicely. This year's event looks like it will top the fun and entertainment of past events. NOW is the time to begin planning your family Summer vacation, and what better place to go than camping amongst your fellow Hams in a beautiful private park all to ourselves, enjoying nature, the out of doors, with group activities, campfires, and contests. There is something for everybody, Hams and non-Hams alike!

Activities and forums are spread over TWO days to make your weekend that much more fun-filled and enjoyable. Pick and choose to attend whatever is to your liking!

To find more information about this fun event, go to the URL listed below.

**ARRL Michigan Section
Summer Family Outing**

WEBSITE: <http://www.sectionouting.info>

WHEN: Thursday July 7th thru Sunday July 10th, 2011

WHERE: Woodlands Conference Center and Campgrounds, 318 S. Sage Lake Road, Hale, MI 48739, (17 miles east of West Branch)

COST: Free to attend! Campsites (improved and unimproved) as well as beds in the Bunkhouse have a nominal charge (see the webpage 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.

WHAT: 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, 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, kid's, 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!

REGISTRATION: See the website, but pre-registration is NOT necessary, so don't let that stop you from attending. Just show up and we will take good care of you and we trust you will have a fun time :)

FLYER: A one-page flyer (PDF) is available on the website. Consider downloading and printing a dozen or two copies to hand out at your next few club meetings, ARES/RACES/ARPS training sessions, or at any Swap-n-Shops in your area. And don't forget to talk it up on your local Net! Help get the word out!

We hope to have you join us!

Jay Nugent WB8TKL
Michigan Section
Summer Family Outing
Event Coordinator

Wanted - MARC Newsletters

Looking for any newsletters prior to January 1984 as well as the following:

February 1984
March 1984
May 1984

June 1984
July 1984
August 1984
September 1984
August 1985

September 1985
January 1986
If you happen to have any of these newsletters contact Dennis - N8ERF or Lee - KC8ITI

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 trans-

formers 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@roger-halstead.com)

Wanted to Buy: I am looking to buy some equipment in good working order. If you have any of these items you would like to sell at a bargain price, please contact me. OK, a reasonable price. Oscilloscope – at least 30 MHz; VTVM; Audio Frequency Generator; RF Frequency Generator; Spectrum Analyzer.

Dennis, N8ERF
989-636-7704

MARC Vital Statistics

Memberships Expiring in June

K8BHU
N8CGP
N8KRL
NX8A
W8LSS

WD8AXR
WA8KJR
KA8HQW
WD8SDX

Memberships Expiring in July

AB8TJ

W8QN

Current Active Club Membership 61

Birthdays Celebrated in May/June

KC8KOC 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
KB8IPU 6/23
KD8IWG 6/23
K8HP 6/24

N8POX 6/25
KB4EIZ 6/27
KC8URV 6/28
WD8ODG 6/30

Anniversaries Celebrated in May/June

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
W8SEX and Myrna 6/13
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 3/8/2011

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