

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

President Vice President Secretary Treasurer W8KEA Station Trustee Midland County EC/RO Midland County AEC Newsletter Editor Newsletter Publisher ARRL Liaison Web Page Chairman Club Historian Quartermaster Public Information Officer Field Day Committee

Swap Committee

Mark Rodgers KC8GRQ Linda Hodges KC8MUD John Wolters W8QN Larry Macklin N8CGP John Wolters W8QN Chris Rose KB8UIH Pat Mullet KC8RTW Art Peters KOACP John Tallman KB8PGW John McDonough WB8RCR Stan Rowe K6VWE Lee Hodges KC8ITI Pat Mullet KC8RTW Kevin Martin KD8QAM/ch Pat Mullet KC8RTW	(989) 513-0100 (517) 672-1060 (989) 486-3771 (989) 832-9122 (989) 631-7748 (989) 832-9122 (989) 832-7179 (989) 828-6657 (989) 400-3745 (989) 859-0364 (989) 631-0178 (989) 837-7252 (989) 486-3771 (989) 828-6657 (989) 828-6657 (989) 828-6657
Mark Rodgers KC8GRQ/Ch	(517) 672-1060
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 October 2, 2014, 6:00 PM Law Enforcement Center, 2727 Rodd St. Next CLUB Meeting — Thursday October 2, 2014, 7:30 PM Salvation Army Building, 330 Waldo. Talk-in 147.000+

> > October 2014

# Static Discharge

Kevin Martin, KD8QAM

School is in full swing and the leaves are changing. With things cooling off we are moving some of our gear inside.

Thank you to those that have held a position and to those that are currently holding a position after last month's elections. With school and other activities, there isn't much time for radio this month.

73, Kevin, KD8QAM

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







The meeting was called to order by Kevin, KD8QAM at 7:45 p.m. With 24 members and guests present.

Introductions were made and the treasurer's report was given by John, W8QN. He also reported that all but one antenna have been replaced at the main repeater site.

• EC/RO – The SET will be on 10/4. It will start on the repeater but

#### 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/examsearch.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 John, W8QN at w8qn@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) will move to other digital mode testing and packet. Email John, W8QN if you want to participate. The county and state are also planning SET. Also the Porter Township Safety Day is Saturday 9/6 from 10 a.m. to 2 p.m.

- Dennis, N8ERF reported that the Midland High School Amateur Radio Club will have its first meeting on 9/24 in room 321 from 7-9 p.m. They have many projects slated for this year. Anyone who wants to can visit the meetings.
- The new tech class starts on 10/7 also at Midland High room 321. It runs on Tuesday and Thursday from 7-9 p.m.
- If you want information about HR 4969, go to the ARRL home page.
- Other events: The Dirty Dog Run will be held 10/4 with set up at 7:30 a.m. The MARC picnic will be on 9/20 beginning at 11 a.m. with lunch at noon. Bring your dish to pass, table service, games and radio.
- A motion was made to replace the 25 ft extension cord lost at the swap was made by Larry, N8CGP and

seconded by Cindy, KD8JQY. Motion passed.

• A motion to pay \$100 to the Sweet Adelines to sing at the Christmas party was made by Cindy, KD8JQY and seconded by Dorie, N8WTQ. Motion passed.

Net control:

Sept 11: W8QN

Sept 18: KD8QAM

Sept 25: KC8ITI

- Election results: President Kevin, KD8QAM, Vice President Mark, KC8GRQ, Treasurer John, W8QN, Secretary Linda, KC8MUD. Congratulations to all.
- A motion to reappoint the Midland High advisory board was made by Dennis, N8ERF and seconded by Cindy, KD8JQY. Motion passed.
- A motion to adjourn was made by Larry, N8CGP and seconded by Dennis, N8ERF. Motion passed and the meeting adjourned at 8:25 p.m.

Respectfully submitted, Dorie, N8WTQ

# My Two Cents

If you've been reading my column, you know I've earned my basic Worked All States (WAS) award, am in the process of getting my DX Century Club (DXCC) award contacts verified, and am currently working towards the ARRL Centennial WAS award. All of this has got me thinking: how many other club members are "paper-chasers," and what awards have you earned? Drop me an email, and let me know. If might be a subject worth discussing at a club meeting.

Last week's Net control was John, W8QN, who commented on the X-class which occurred the prior weekend, and the Coronal Mass Ejection which was due to strike Earth. The topic for discussion revolved around what steps those who checked in had

Pat Mullet, KC8RTW

taken to "harden" their stations against flares and EMP pulses. Again, that gave me cause to wonder, what steps had club-members taken against more prosaic threats such as thunderstorms? A recent QST article showed a switched coax entry box featuring built-in gas-discharge tubes for surge suppression and bleeder resistors to drain precipitation generated static from antennas. Do you have surge suppressors in your antenna line? Are they the more effective gas-discharge type or the cheaper and less effective Metal Oxide Varistor type only good for a storm or two?

Since I've mentioned both paperchasing and antennas, if you're working HF, have you succumbed to "antenna fever" yet? Those of us with only a single wire antenna strung up

# Amateur Radio is a Contact Sport!

quickly find that there are limitations to what we can do. The antenna probably performs well on 80 and 40 meters on stations within a few states, but you have a hard time working nearby stations on 15 through 10. By the same token, you can work either coast on 20 meters and up, but forget working 80. Ahh, if only I had a multiband beam up about 60 feet!

Yes, my friend, you, too, can fall

victim to antenna fever.

Well, that's enough for now. Tonight, I want to make one last try to work W1AW/0 from Colorado on 80 meters, and tomorrow, North Carolina operates W1AW/4 for the first time, so I need to snag as many contacts on as many bands as I can. Hope to catch you on the air.

73, Pat, KC8RTW

#### Upcoming Events

9/20 MARC Picnic 10/4 Dirty Dog Run

Michigan Hamfests

10/18 Muskegon 10/19 Kalamazoo 10/26 Madison Heights 12/7 Harrison Township 2/15 Livonia

# New Vanity Call Sign Fee Now in Effect

(ARRLWeb—09/15/2014) The new Amateur Service vanity call sign regulatory fee of \$21.40 became effective on September 11. The FCC released a Report and Order and Further Notice of Proposed Rulemaking (R&O) on August 29, in which it recalculated the fee to \$21.40 for the 10year license term. The \$5.30 increase represents the largest vanity fee hike in many years. In past years, new vanity fees did not become effective until 30 days after their publication in The Federal Register, which occurred on September 11.

The FCC reported there were 11,500 "payment units" in FY 2014, and that the vanity program generated an estimated \$230,230 in FY 2013 rev-

enue. The Commission estimated that it would collect nearly \$246,100 in FY 2014 vanity call sign fees.

The vanity call sign regulatory fee is payable when applying for a new vanity call sign or when renewing any vanity call sign designated as "HV" in the FCC's ULS database.

As of October 1, 2013, the Commission no longer accepts checks — including cashier's checks — for the payment of regulatory fees. All payments must now be made by online ACH payment, online credit card, or via wire transfer. Any other form of payment will be rejected and returned to the applicant.

## MARC Election of Officers

At the September 4<sup>th</sup> meeting, the membership of the Midland Amateur Radio Club held elections for club officers as provided in the club's bylaws. President Kevin Martin President and Treasurer John Wolters were re-elec-

ted. Mark Rodgers was elected Vice President and Linda Hodges gained the Secretary's office. Mark and Linda will assume office at the next meeting.

### MARC Fall 2014 Picnic

Remember September 20<sup>th</sup> is the date for the MARC Fall Picnic. Bring a dish to pass, your own table service, drinks and anything you would like to grill. Charcoal grills will be fired up

for your use. The location is the Homer Township Park on South Homer Rd. Plan on meeting around 11 AM for an afternoon of fellowship.

# SOS Animal Rescue Dirty Dog Run

The SOS people have asked for our help again this year with their event at City Forest. The date is Saturday October 4<sup>th</sup>. We should be on site between 7:30 AM and 8 AM. The first race

starts at 9 AM. The event finishes by noon. If you can help with this low impact event contact Lee, KC8ITI at (989) 486-3771 or email kc8iti@arrl.net.

Area Nets SVARA: Mn, 147.24 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

MARC MERCHANDI SE				
T-Shirt	S- XL	\$10		
Long-Sleeve Tee	2X - 3X S- XL 2X - 3X	\$12 \$12 \$15		
Crew Sweatshirt	S- XL	\$18		
	2X - 3X	\$20		
Hoodie	S- XL	\$24		
7' 11 1'	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.

<sup>\*</sup> Denotes date based on 2013 event

### Technician License Class Offered

Midland Amateur Radio Club is organizing an Amateur Radio Technician License class starting Tuesday, October 7<sup>th</sup> and meet on Tuesdays and Thursdays for the next seven weeks at Midland High School Room 321, 1301

Eastlawn Dr. in Midland. Each class will start at 7:00 pm and run approximately two hours, covering everything you need to know to obtain your first Amateur Radio license.

There is no fee for the class,

though the textbook used—The ARRL Ham Radio License Manual Third Edition has a list price of \$29.95. If you order the book through the class, you can get in on the club discount and get the book for \$23.00.

# Michigan Section News

Greetings to the Hams of Michigan:

The fall season is upon us and our thoughts turn to finishing antenna projects and other outside work as we get ready for the winter season. Hunting season will open soon as the trees are already beginning to turn those beautiful fall colors. Be sure to take time to take a drive (or two) around the countryside just to enjoy the scenery that is available this time of year.

ARRL Simulated Emergency Test

This year's Simulated Emergency Test (SET), scheduled for Saturday, October 4 is inching ever closer. The 2014 SIT MAN or Situation Manual has been released to the DEC's, EC's and Net Managers for their planning. Talk with your county Emergency Coordinator now to learn how you can participate. Not sure who your EC is? Find contact info here: http://ares-mi.org/ECcontact.php

HR 4969

Last month I reported on HR 4969, a bill in the House of Representatives that would address the issue of antenna restrictions in areas with CC&R's and Homeowner's Associations. This bill, if passed through Congress and signed into law will be one of

the most important pieces of legislation to become law from an amateur radio operator's perspect-As a result of your letter writing and various direct contacts, Michigan now has two congressmen who have signed on as Co-sponsors: 1st district Con-Benishek gressman Dan (KB8TOW) and 7th district Congressman Tim Walberg have stepped forward to help the amateurs of Michigan. If you reside in their districts, please go to their respective websites and thank them via email for their support of amateur radio.

If you don't live in their districts, send them a QSL card via snail mail thanking them for their support. Feel free to send them a QSL card even if you live in their districts. What a unique way to say "thank you" as only hams can do. (BTW, the QSL idea came from Joe Miller, KJ8O. Thanks Joe!) It is important to recognize that this project is just getting underway.

By no means is the struggle for Amateur Radio Parity complete. The ARRL has more than 160,000 members and there are in excess of 700,000 licensed hams on the FCC database so there are a great number of highly motivated voters out there. As we go through this process, it is extremely important that we keep our base motivated and on task. Additional involvement from all

of us will be required. Stay tuned for more information.

#### ARRL Centennial QSO Party

We are approximately 4 weeks away from the start of the second week of W1AW/portable operation in Michigan as W1AW/8. While we have quite a number of stations signed up to operate from home and club stations, there are still slots available. If anyone is interested in participating, now would be the time to get signed up and on the schedule. Dennis, KT8X is coordinating this event with able assistance from Tom, K8TB. If you would like to participate or if you have questions, you can email Dennis, KT8X, at dward8@gmail.com.

#### ARRL Red Badge Day

ARRL's "Red Badgers" will be out in force on Sunday, September 21 UTC (starting the evening of Saturday, September 20, in US time zones), offering another opportunity to snag some high-value contacts to boost your ARRL Centennial QSO Party total.

During the second "Red Badges on the Air" activity, AR-RL officers, elected officials — such as Director or Section Manager — Headquarters staffers and volunteers, and other members of the ARRL family who merit red

# It's Not Your Grandfather's Amateur Radio!

ARRL name/call sign badges will take to the air. Contacts with red badge wearers are worth a lot of points — as much as 300 points per contact for working ARRL President Kay Craigie, N3KN — so participants can increase their Centennial QSO Party tallies very quickly.

ARRL Membership and Volunteer Programs Manager Dave Patton, NN1N, said that ARRL red badge holders number about 200 — including officers, Direct-Section Managers, Headquarters staff, many of whom will be on the air on September 21. "Not just Red Badgers will be active, but many ARRL appointees, VEs, and members will be as well," said Patton. "The first Red Badge Day on June 1 was a huge success but left many operators wanting more.

Nine months into ARRL's Centennial year, the Centennial QSO Party and W1AW activations already have proven to be the largest and most active special events in the history of Amateur Radio, with more than 20,000 participants on the air from all continents."

The event is considered an activity day, not a contest, and operation is permitted on all bands. Participants can call "CQ ARRL Centennial QSO Party" on phone or "CQ CENT" on CW or digital modes. While the event will focus on encouraging ARRL red badgers to hand out Centennial QSO Party points, all activity is welcome, regardless of point value. ARRL members are worth at least one point in the Centennial QSO Party. Participants get credit for each band/mode contact, regardless of point value.

ARRL Centennial QSO Party

participants can use the leader board to determine how many points they have accumulated. Other high-value contacts include: President Emeritus (PE) or Past President (PP), 275 points; Honorary Vice President (HVP) or ARRL Vice President (VP), 250 points; Director (DIR), Director Emeritus (DE), or Past Vice President (PVP), 225 points; Vice Director (VD), 200 points; Section Manager (SM), 175 points; ARRL officer (OFF) or Past Director (PD), 150 points, and Past Vice Director (PV), points. 125 W100AW, Charter Life Member (CLM), or Past Section Manager (PSM) contacts are worth 100 points. ARRL Headquarters department managers (DM), 75 points; ARRL Headquarters staffers/volunteers, (HQ), points; Assistant Director (AD), 40 points, and NCJ Editor and QST columnists, 30 points.

Michigan Net (QMN) Net Picnic

The 2014 edition of the QMN Picnic is scheduled for September 27th at12:00 noon at the Davison Roadside Park in Flint/Burton. Our General Manager, Anne, K8AE has things well organized for us. We have reserved a shelter so any rain will not impact seriously impact our event. There is a play area for kids and grandkids. You can find driving directions, schedule, and other information here: http://michigannet.org/news-bulletins/.

Attendance is not restricted to QMN members. All interested hams are invited to attend and learn more about one of the oldest communication networks in the world and how it remains pertin-

ent in today's modern world.

Vanity Call Sign Fees to Change

The FCC has adjusted very slightly downward - to \$21.40 - its proposed Amateur Service vanity call sign regulatory fee for Fiscal Year 2014. In a June Notice of Proposed Rule Making (NPRM), the Commission said it was planning to hike the current \$16.10 vanity fee to \$21.60 for the 10-year license term.

The FCC released a Report and Order and Further Notice of Proposed Rulemaking (R&O) in the proceeding on August 29, in which it recalculated the fee to \$21.40 for the 10-year license term. The \$5.30 increase still represents the largest vanity fee hike in many years. The new \$21.40 fee does not go into effect until 30 days after the R&O is published in The Federal Register.

#### ARES Cards Available

Emergency Coordinators, please note that ARES membership cards are available through your District EC. DEC's contact WB8RCR for details. We will be gathering EC names and addresses for drop shipment mailing directly to those EC's requesting cards. Please be reasonable in the quantities that you request.

73 until next month,

Larry Camp, WB8R ARRL Michigan Section Section Manager wb8r@arrl.org

# Technical Topics and Information

(ARRL Contest Update—August 27, 2014) To repair a rotating

80 meter dipole, Steve N2IC discovered a method by VE6WZ of

building loading coils <a href="http://www.qsl.net/ve6wz/coil.htm">http://www.qsl.net/ve6wz/coil.htm</a>.

# Explore the World with Amateur Radio!

The replacements have now been up for 10 years at VE6WZ without failure. (Thanks, Steve N2IC)

♦ Hooking up mobile rigs and other medium and light loads to a vehicle's electrical system can be quite a trick! One possible solution is to use an automotive "fuse tap" as described by Richard AA5VU. Available at auto parts stores, the fuse tap is inserted in place of an existing fuse (replaced on the fuse tap) and creates a separate, fused current path for the new circuit. Use caution, however - just because the new circuit is fused doesn't necessarily mean the wiring supplying the fuse block can handle any number of taps! A 25 or 50 W transceiver used with a typical 25% transmit duty cycle will probably be okay, but installing several to power various loads could lead to an expensive overload of the wiring to the battery. (Thanks also to Steve AG1YK)

- ♦ If you want to avoid the high price of vacuum variables Herb KV4FZ suggests the much lower cost of using G2 or equal HV high-current fixed mica capacitors. Create an adjustable capacitor by adding a series inductance like a hand wound coil of copper tubing or a simple roller inductor. If you are using the capacitor in a tuning unit, for example, use the variable unit to find the correct match, then replace it with a fixed-value capacitor.
- ♦ Since you don't want bird nests and wasps inside an antenna boom, do not leave it open. Dan N5AR uses small screens of hardware cloth in each end. Cut discs of hardware cloth a couple of inches larger than the boom diameter. Then cut radial slits every inch or so around the outside edge. Bend the resulting flaps in so they will slide into the boom and stay in place. The galvanized

screen also allows for drainage and air circulation, too.

♦ If you wrestle with limited space for tools and parts but an unlimited appetite for workbench activities, take a look at this nice home hobbyist's electronics cabinet published by Circuit Cellar.

Technical Web Site of the Week - Selecting and connecting a microphone for older radios can be a challenge. G4WPW has published a good web page on wiring the microphones - but as far how to choose a particular microphone for a particular rig, that's a different story. Most of the radio manuspecify what type microphone input circuit they have - that should clue you in as to whether you can use a certain type of microphone (dynamic, electret, etc) without some kind of conditioning/buffering circuit. The Heil Sound microphone primer may be just what you need!

# More Technical Topics and Information

(ARRL Contest Update—September 10, 2014) Jim K9YC has generated another interesting publication, this time on the noise emissions from transmitters, both close to the carrier (such as during CW operation) and over a wide bandwidth. The analysis and graphs are based on data measured by the ARRL Lab as part of their product review evaluations and published in *QST*. A companion presentation by Bob K6XX is also available, showing how to configure and operate so as to produce a cleaner signal. With receivers so good they can hear a pin drop at the antipodes, it's now time to start working on cleaning up our transmitted signals so they don't cover up those weak signals or clobber the station on the next channel (or band!).

◆ VE7BQH has just released an <u>updated spreadsheet</u> comparing the gain, bandwidth and showing proper stacking distances for various popular VHF+ antennas. (Thanks, Lance W7GJ)

- ♦ Pulleys or blocks used to support wire antennas must be chosen to support the halyard holding the antenna without abrading it. Rick N6RK recommends the Harken blocks that are available from many sources, including marine supply stores, Mc-Master-Carr, and SO forth. Whatever you do use, Frank W3LPL notes that using large diameter pulleys is important to keep from bending the rope around a small radius, which creates wear.
- ♦ More from K9YC as Jim discusses avoiding hum and buzz without transformers and setting computer audio playback levels. His advice applies to both SSB and digital modes, with the additional observation that inexpensive USB sound cards work better than internal computer sound card ICs.
- ♦ A new product appeared in a recent *Linear Technology* article -

a <u>mixer</u> designed for good strongsignal performance at VHF+. This might be particularly useful in receivers intended for use in multiband fixed and mobile stations.

- ♦ Joe W4TV adds more explanation to the discussion of Fkeys configured for multi-media or system control. "The user can generally configure the start-up behavior of function keys using vendor-specific applications or disable the "alternate" functions altogether using the software. In some cases, disabling the automatic loading of the drivers will restore normal operating system use of the F-keys... Generally, the on-line documentation and/or the OEM 'management software' will provide the necessary information if one is willing to take the time and look for it."
- ♦ One more note from the prolific K9YC as Jim observes that most vehicle power systems are not set up to minimize the area formed by a radio's power supply

wiring. If the current return (negative) lead is not kept with the supply (positive) lead all the way to and from the battery, those paths form large-area loops that are ideal for common-mode coupling! This is a recipe for noise pickup and RFI! When possible use heavy twisted-pair or zip cord to connect your radio directly to the battery (or a power tap with both positive and negative termin-

als), fusing both leads.

♦ With the summer sporadic E season behind us, paying attention to beacons takes on even more importance to capitalize on tropo and other fall and winter VHF+ modes. WA8RJF's "The Magic Band(s)" column in the July issue of CQ alerts us to W2DSN's Beacon Spot US website for beacon data at VHF, UHF, and microwaves.

Technical Web Site of the Week - The six-part "Antenna Interactions" series of National Contest Journal articles by K3NA are now available in the Bonus Content area of the NCJ website. Search for the phrase "Antenna Interactions" and you will find all six parts of the article. (Thanks, Kirk K4RO)

# Swap & Shop

Wanted: I've restored a Heathkit HW-16 and I'm looking for 80 meter and 40 meter crystals (*FT-243 holder-Ed.*) Preferably in the CW portion of the bands. If you have any please contact me at (989) 486-3771 or kc8iti@arrl.net. Lee KC8ITI

**For sale:** one 500 ft. roll of 5/16" double braided dacron, strength 1790 lbs. for sale for \$100.00.

It is brand new, still on the spool—too large for what I intended it for. Please call if serious. I will not be cutting lengths and

selling pieces. All or nothing.

Kevin D Cuthbertson,

KD8QXL.

Phone: 810 287 2404

Email: papafrog777@ya-

hoo.com

KC8RTW

# MARC Vital Statistics

KC8IHB

Memberships Expiring in September

Memberships Expiring in October

NONE

Memberships Expiring in November

KB8RCR

Current Active Club Membership 36

#### Birthdays Celebrated in September/October

KC8ZMQ 9/6	KC8GRQ 9/27	KA0KPP 10/16
N8STF 9/9	W8WOJ 10/3	KC8TQU 10/19
N8FUZ 9/17	W8ZSX 10/5	WB8IDY 10/23
KB8PGV 9/17	N8LTR 10/10	KB8PGW 10/25
KB8SOE 9/19	N8WTQ 10/10	N8OVT 10/27
KB8WEE 9/24	WD4PIJ 10/13	KC0CJC 10/31

#### Anniversaries Celebrated in September/October

N8LBF and KB8QYC 9/6
W8JBD and ??? 09/10
WB8IDY and Audrey 10/1
KC0CJC and Sally 9/12
K8RI and N8JBW 9/26
KG8YG and Rachel 10/01
KD8CUX and ???? 10/04
KB8MCI and Cyndi 10/06
WB8RCR and Eileen 10/12
KB8SOE and Darcie 10/19
KC8GQK and Tersa 10/20
KB8LQM and KC8IHB 10/23
KD8CUX and ???? 10/04
NQ8T and Barbara 10/23

Information is from data received 5/7/2014 Any corrections or questions contact John, W8QN



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	zZip
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	on? 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