

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

Swap Committee

Lee Hodges KC8ITI Art Peters KOACP Linda Hodges KC8MUD Larry Macklin N8CGP Larry Macklin N8CGP	(989) 486-3771 (989) 400-3745 (989) 486-3771 (989) 631-7748 (989) 631-7748
Jack Robinson, K8GTG (Interim) Chris Rose KB8UIH Pat Mullet KC8RTW Art Peters K0ACP John Tallman KB8PGW Dennis Klipa N8ERF	(989) 832-7179 (989) 828-6657 (989) 400-3745 (989) 859-0364
John McDonough WB8RCR Stan Rowe K6VWE Lee Hodges KC8ITI Pat Mullet KC8RTW John Tallman KB8PGW (Ch) Pat Mullet KC8RTW Pat Russell W8PMR Chuck Cribley WA8LQD Keith Johnson KB8SOE Pat Mullet KC8RTW	(989) 631-0178 (989) 837-7252 (989) 486-3771 (989) 828-6657 (989) 859-0364 (989) 828-6657 (989) 832-2924 (989) 488-9409 (989) 488-4337 (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 4, 2018, 6:00 PM Law Enforcement Center, 2727 Rodd St. Midland ARC Meeting — Thursday, October 4, 7:30 PM Salvation Army Bldg, 330 Waldo Ave. Talk-in 147.000+

OCTOBER 2018

View from the Top of the Tower

Lee Hodges, KC81TI

"Well I've been up this newsletter tower for so many years I hope I can remember how to get down from this thing without breaking my neck." This is how I ended my last column as president of the Midland Amateur Radio Club in the October 2011 newsletter. Not in my wildest dreams did I think that I would be called back to active duty to fill the role of President of the club again. Our previous president, Al Bailey, AD8BA, is relocating to the great state of Kentucky. Al's wife has a great new job that required them to move. Thanks Al, for a great year under your leadership. You will be missed. But this left the office of president open. The good news was that all of the other club officers agreed to stand for reelection. The nominations committee, Dennis, N8ERF and Richard, KD8QXK went to work searching for a candidate for the office of president. The bylaws for the club set the criteria for the qualifications for this club office. After contacting several likely

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







candidates and even expanding the search they couldn't find anyone willing to take the position. Dennis came over for a cup of coffee and outlined the problem. We put our heads together and came up with a couple of other possibilities which Dennis contacted with no success. I had told Dennis that if we absolutely could not find anyone else that I would be willing to step up one more

MARC MEETINGS

Art Peters, KOACP, 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 Art at (989) 400-3745, or via e-mail: k0acp@arrl.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

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/VEČ" are required.

The address listed below gives testing sessions scheduled for 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

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 John (w8qn@arrl.net)

time. Dennis told me that I shouldn't even think about it with all of the other things I was currently doing on behalf of the club. But in the end with no other choice I humbly accepted the office of president for Midland Amateur Radio Club.

Lots of things have changed since I last held the office of president. Under the leadership of other club presidents lots of progress has been made in keeping the club moving forward. New challenges face us and I'm sure our club members are up to conquering any of these that come along. There are projects that have been started that need to move forward to completion such as the upgrade of our 2 meter repeater system. New standards for ARES® participation are coming down the line

which our club will have to address. New technologies are coming to amateur radio all of the time that require us to keep constantly upgrading our skills and procedures. Our job as club officers is to supply the resources needed to keep our club viable and moving forward in this great hobby of amateur radio. I look forward to serving again as president. I have always cherished an open door policy. If you have anything you want to talk about concerning the club or amateur radio give me a call and let's have a chat. Along with the other club officers I look forward to another great year for the Midland Amateur Radio Club.

Lee - KC8ITI

MARC Minutes

Linda Hodges, KC8MUD

The meeting was called to order by Al, AD8BA at 7:30 pm at the Salvation Army Building with 28 members and guests present. Introductions were made and a sign-in sheet was passed around.

Please bring any corrections or additions of the minutes to the attention of the secretary.

- Executive Meeting report— Al, AD8BA— An executive meeting was held on August 15th. These meetings are open to club members. The main discussions at the meeting were about the bylaws, the repeater tower agreement and the speed net connection.
- A motion on the floor was made by Keith, KB8SOE to pay off the bill for the Speed Net Internet Connection for \$120.00. Seconded by Max, KE8DON, Passed.
- Sanford Tower—Max, KE8DON— Max and his team checked the tower in Sanford for a possible repeater site replacement

location. Pros and cons discussion, relocation to Sanford is not a good option at this time. There is a need for people to help clean up the current site. Contact Max if you can help.

- Elections— Al, AD8BA— There are four uncontested positions. The bylaws state that a paper ballot be sent around to paid members which was done and the results are as follows: President Lee, KC8ITI; Vice-President Art, K0ACP; Treasurer Larry, N8CGP; Secretary Linda, KC8MUD.
- Also paper ballots were sent around to re-elect advisory board position. The results are as follows: Dennis, N8ERF; Lee, KC8ITI; Andy KD8UJL; Art, K0ACP; Will, K8VFO
- High School Club Report— Dennis, N8ERF— Dennis gave a beginning of the school year club report about the High School Club and the Middle School Club.
- Treasurer's report—Larry, N8CGP— Thank-you to all those

Amateur Radio is a Contact Sport!

people who have renewed their club memberships.

Net Controls:

Sept 13th Paul, KE8GEM Sept 20th Lee, KC8ITI Sept 27th John, W8QN The meeting ended at 8:35 pm

Respectfully submitted Linda KC8MUD MARC Secretary

My Two Cents

Pat Mullet, KC8RTW

Early last month, my neighbor lost power to her house-turns out that branches from her locust tree had shorted out the line from the pole to her home entrance head. A day or two later, the sound of a chainsaw nearby caught our attention. Turns out that our neighbor's father (whom I happened to go to school with—small world!) was using a powered pole saw to trim off every branch about 20 feet off the ground.

So, what does this have to do with amateur radio? It just so happens that the branches in question overhung our property, more to the point, they overhung the shed to which I'd been planning on attaching the mast for the VHF/UHF beams I want to build. Serendipity lives!

As I mentioned in my August column, I've already picked up an old RadioShack ServoRotor on eBay for the project; the mounting hardware is missing, but that is an easy fix. A bit more bothersome is the fact that the plastic shroud meant to cover the rotor wire terminals is missing. I probably can get by using electrical tape to keep the elements away from the connections, but it would be nice to find a better solution for this little problem.

The nice thing about this five wire rotor, designed and built in Germany by Stolle and marketed in the US by both RadioShack and RCA, is that it is a true position sensing rotor, not one of the cheap "clacker" rotors whose control boxes jumped around the top of the TV when you used them. It's also more precise in positioning than the three or four wire systems.

That's it for this month; hope to catch you on the air.

73, Pat, KC8RTW

SOS Dirty Dog Run Wrap Up

Thanks to all that helped with this event. This is the first year that Linda and I missed working on this due to a family commitment. I greatly appreciate John, W8QN for stepping in and coordinating the event this year. I did receive a nice thank-you note from Joann Taylor for our help with their event. Below is the email I received from John after the race.

Hello Lee, Dirty Dog Run went well. No one injured, a little rain but not much, turnout was smaller due to the threat of heavy rain that never occurred. 7 Operators including myself. Repeater was used.

Setup at 8:00 am. Released last operator at 10:30 am. Cleared site by 11:00 am.

Operators were Stan Rowe, Dorie French, Pat Russell, Max Schneider, Dennis Klipa, Dennis Caney and John Wolters.

Easy Morning. Race director

Upcoming Events

SkyWarn Recognition Day
Straight Key Night
Michigan QSO Party
Museum Ships Weekend
Midland Hamfest
Field Day

Dec 1

Dec 31/Jan 1

April 21

June 7-9

June 15

June 22-23

Michigan Hamfests

9/16 Adrian

9/22 Shelby Township

10/6 Alpena

10/6 Brooklyn

10/20 Muskegon

10/21 Kalamazoo

10/28 Madison Heights

12/2 Madison Heights

2/17 Livonia

Area Nets

SVARA: Mn, 147.24 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 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

came by and thanked everyone after the race.

John Wolters W8QN

Again thanks to everyone for making this event a success.

Lee - KC8ITI

I tems For Sale

Still lots of club equipment still available. It doesn't benefit anyone sitting in my basement and garage so I will start listing what is available in the newsletter on a rotating basis. Here is the third group with suggested prices but if interested lets talk. Email kc8iti@arrl.net or Phone (989) 486-3771.

Lee, KC8ITI – Club Quartermaster

- 40 Foot Aluminum Tower 5 Sections \$400.00
- Cushcraft R-7000 Multiband Vertical \$200.00
- Heathkit SB-614 Station Monitor \$75.00
- 100 Ft Saxton 8316 52 Ohm Coax \$75.00

- 13 Ft RG-8 Foam \$4.00
- 14 Ft RG-8 Foam \$4.00
- 28 1/2 Ft Belden 8259 RG-58 \$17.00
- 38 Ft Channel Master RG-8 Coax \$40.00
- 73 Ft 9913 50 Ohm Low Loss Coax \$73.00
 - 75 Ft Belden 8214 RG-8 \$136.00
 - 80 Ft Belden 8214 RG-8 \$145.00
- 13 Ft Channel Master RG8 Coax \$10.00
 - 27 Ft RG8 Coax \$20.00

- Diamond X-50NA 2m/70cm \$75.00
 - Cushcraft AR270B \$100.00
- Cushcraft ARX-2 2m Ringo Antenna \$40.00
 - Cushcraft ARX-2 \$40.00
 - Cushcraft ARX-2 \$40.00
 - Cushcraft ARX-2 \$25.00
 - Cushcraft ARX-270N \$150.00
 - Hustler G6-144B \$75.00
 - 2 Meter Vertical Antenna \$20.00

ARES®/RACES

Jack Robinson, K8GTG

Hello readers, this is my first entry as the Assistant EC/RO replacing Al Bailey. For the last two months I have been job shadowing Al, trying to understand this particular dimension of ham radio service to the community. My initial thought is, "wow, we were lucky to have Al not only as the EC/RO, but also as the outgoing club president". Thank you so much Al for the many hours of dedication and devotion to the role of EC/RO. I myself had no idea what all Al did, until the tasks started rolling in. And the training! I've had four online FEMA classes (IS-100, IS-200, IS-700, and IS-800) plus two classroom sessions (IS-300 and MGT-347). Recently paid a visit to some of our locations, such as the Homer Fire Department where we have an outdated radio that needs attention and a remote antenna installation. I've also had chance to meet Midland County's emergency management coordinator, Jenifier Boyer. Meeting Jenifier and a few of the other professionals at the Midland Law Enforcement Center was a real treat, Midland is very fortunate to have such talented folks working for the city and county of Midland.

What's next in the ARES®/RACES space? Just like other ARES® and RACES organizations, there is a need to refresh,

update, and certify our volunteers in this space. This will be done by refresher training over the coming months, updating documentation, and switching from paper-based reporting to online systems such as *ARES Connect*. More to come in future meetings and newsletters as details are finalized. In the meantime, many thanks to all our ham radio enthusiasts that volunteer to help the community with events like the MS-Walk, the Dow Run-Walk, and even the Dirty Dog Trail Run in August.

Jack, K8GTG

Dale's Tales for September

(ARRLWeb—8/30/2018) Greetings, welcome to "Dale's Tales" for September 2018.

The following news was announced earlier this week by ARRL Headquarters:

Newington, CT – August 27, 2018 – The Board of Directors of ARRL, The national association for Amateur Radio, has elected Howard E. Michel, PhD, WB2ITX, of Dartmouth, MA, to be the association's new Chief Executive Officer, effective October 15. Michel is currently Chief Technology Officer at UBTECH Education, and Senior

Vice President of UBTECH Robotics, a \$5 billion (U.S.) Shenzhen, China, AI and robotics company. As the Chief Technology Officer at UBTECH Education, Michel helped build this company from a start-up in China to \$100 million in valuation.

"I have amateur radio to thank for starting me on a very successful career, and I'm excited about the opportunity to further ARRL's goals as CEO. Leading the League will allow me to 'give back' to a great community and provide similar opportunity for future generations," Michel said. "I have been a licensed ham for fifty years, and I've

seen many changes in the hobby. One of my top priorities as CEO will be to develop new products and services so all licensed hams, whatever their license class or interest, find value in League membership," he added.

Michel first because licensed as WN2ITX when he was about 16 years old and upgraded to General Class and Advanced Class within a year of that. He upgraded to Extra Class in 2000. He notes that he has always had a strong interest in building and repairing radio equipment. "I've operated CW/AM/FM/SSB/Digital on 80/40/20/15/10/2 on equipment that

I have either built, repaired or modified."

"We are excited to have someone of Howard's qualifications to lead this organization," said Rick Roderick, K5UR, ARRL president. "Howard's management experience, along with his experience at leading a membership-driven association, makes him an ideal person to move this organization forward," Roderick said.

In 2015, Michel was the volunteer president and CEO of the Institute of Electrical and Electronics Engineers (IEEE), a volunteer-led 501©3 association advancing technology for the benefit of humanity.

"In any large membership-led organization such as ARRL, its members and volunteers are its greatest asset, and a good staff-volunteer relationship is crucial to its success," Michel said. "I intend to build on this relationship and multiply and amplify the efforts of both staff and volunteers in furthering ARRL's goals to advance the art, science, and enjoyment of Amateur Radio."

Michel is a retired U.S. Air Force officer having served as a pilot, satellite launch director, engineer and engineering manager, including a tour in the People's Republic of China where he served as a senior U.S. Government technical representative enforcing technology-transfer control plans and procedures during two satellite launch operations.

He notes that during his time in the military, wherever he could set up an antenna he took the opportunity to operate.

Michel has a notable academic background, including currently being a Visiting Professor in the Department of Electrical and Electronic Engineering Science, University of Johannesburg in South Africa. Previously he was a member of the faculty at the University of Massachusetts Dartmouth and the University of Dayton in Ohio.

Michel says that some of his favorite activities include attending hamfests to find old stuff to repair or re-purpose, contest operating, and DXing, especially on 80/40 meters. He adds that he is a Life member of the Southeastern Massachusetts Amateur Radio Association.

Michel will succeed Barry J. Shelley, NIVXY, who had been serving as ARRL's CEO since January of 2018 following the resignation of Tom Gallagher, NY2RF. Shelley had been ARRL's Chief Financial Officer since January of 1992.

Again, change comes to our Headquarters operation. While it is inevitable, sometimes we are uncomfortable with the unknowns that change brings. Particularly with new leadership, we are especially alert to even the very minor differences in the various ways the "new guy" influences day-to-day operations.

So as we gear up to welcome Howard Michel in October, let's gear up for the expectations regarding the new ideas he will bring. Will we all agree with every decision? Of course not, and that should not be a consideration. Will we reach accord, will we achieve consensus, will we find common points? Yes, and that's the way it should be. Let's also be supportive by continuing to bring out our own new ideas as we face the future of our hobby, especially as we introduce newcomers to ham radio and mentor them into being good operators. That's the important goal.

Tom's comments follow and are a well aligned insight for today.

TOM'S COMMENTS: Comments from our Vice Director Tom Delaney W8WTD

Who is a ham? What does a ham do? I was thinking about that recently as I looked back on my summer. Not much operating. Well, wait, there was Field Day. And lots of repair, lots of planning. Wanting to make sure that all the systems will operate, both at my home station and for the clubs I work with.

Those of us who have been in ham radio for a while tend to re-

member certain hams we knew from the 1950s and 1960s, who had a reputation for staying in their basements (or wherever the shack was) and talking for hours around the world. And a few of us still do that. We have groups dedicated to helping each other find and work those rare call signs.

Then there are others who talk little but tinker a lot. Maybe it's more than tinkering, but whatever you call it, it's technical. Maybe it's just keeping equipment repaired, maybe it's restoring life to old equipment, or it could even be real scientific advancement.

And of course, these days, with fires and floods and storms all around us, a lot of people spend time preparing for, and actually operating during a disaster. Just this past week, with the hurricane threatening Hawaii, the ARRL home page talked about "Ham Aid" and the preparations to make sure equipment was available in case a large-scale relief effort was needed.

There's ham radio in each of those activities. We all tend to do what we like, and every now and again, something new will catch our interest. All of it is valuable to the future of ham radio.

So let's keep at it. Make sure your gear works. Get on and chat once in a while with friends. And in particular, reach out to new hams and help them with projects so they learn and improve. Looking forward to seeing and talking with many of you during the upcoming hamfests this late summer and fall.

73, Tom W8WTD Vice Director, Great Lakes Division

Be sure to check your Section's news pages for the latest local happenings, club and net information.

73, Let's go light up the bands,

Dale Williams, WA8EFK
Director
ARRL Great Lakes Division
wa8efk@arrl.org

Operating Tips

(ARRL Contest Update for August 22, 2018) **Have a Contest Checklist, and Use It**

Pilots use them. Surgeons use them. You should too. A Contest

(ARRL Contest Update — Sept. 5, 2018) **Operate on the band that may close the soonest**.

Checklist can improve your contest scores by providing a consistent process to preparing for competition. N3FJP publishes a checklist that is helpful no matter

In this time of minimal sunspots and uncertain propagation conditions, grab per-band multipliers what contesting program you are using. You could build on this one, adding items specific to your situation.

whenever you can if they are relevant to your contest.

Technical Topics and Information

(ARRL Contest Update for August 22, 2018) Jim, K9YC, surveyed some of the band-pass filter products that are available for building SOxR or Multioperator stations, and he's published his results on his website. (Jim, K9YC)

- ♦ Bob, N6TV, shares: "If you're using a FTDI-based USBto-Serial adapter you might notice that each time your c puter starts up, as part of the Narrosoft Windows boot process the serial lines are exercised. Depending on how you're using the serial adapter, this can key a rig, send CW, or just be annoying. To keep Windows from generating unwanted signals on this device on startup, I recommend using the Windows Device Manager to disable both the 'Serial Enumerator' and 'Modem Ctrl At Startup' options, which are needed only for legacy devices like serial mice and dialup modems. For step-by-step instructions with screen shots, refer to https://bit.ly/FTDItip."
- ♦ Most contesters use logging software running on the Microsoft Windows operating systems. Sometimes completely legitimate versions of these or other Amateur Radio related software are flagged by anti-virus or anti-malware software as malicious. The worst time that this can happen is just before, or even during a contest! Program authors can lessen the chances of this occurring for their software by following some suggestions

detailed in this <u>article from Microsoft</u>. Although the details are particular to Windows Defender ATP, many other vendors use similar techniques.

- ◆ Julian, OH8STN, has put together an article about how to use a Raspberry Pi computer in off-the-grid situations, including with a USB-connected GPS to derive accurate time for certain digital modes. There are a lot of other interesting pieces in this article that could be applied to solve various problems you might encounter when operating portable, contesting from a DX location, and so on.
- ♦ "A spectrum analyzer software program has been released for the RSP series of SDR Radios ... If you have an RSP radio, you will want to look at this free software" according to Dave, NK7Z. From the website, this software is compatible with the RSP2/RSP2Pro, and RSP1A radios. Since the software is still under development, performance reports are requested via a forum support thread. (Dave, NK7Z, via Ward, NOAX)
- ♦ Contesters at VHF and up frequencies sometimes use objects to reflect their signals to make contacts. Bob, W7PUA, is experimenting with web-based tools to predict radio scattering frequency from data entered from real operating situations. In his own words: "Experimenters, here is something for entertainment. For several

- years I have been working with calculating the amount of signal received from bounces off 'mountains.' This has resulted in a couple of on-line calculators that seem to provide reasonable results." The <u>full text of Bob's message</u> describes the two calculators he has modeled based on his observed characteristics of mountains in the Pacific Northwest, and he invites others to share their observations. (Bob, W7PUA, via PNW Microwave Group)
- ♦ Win-Test logging with a KX2 radio has gained some new features. Bjorn, SM7IUN, used N6TV's KX3 Win-Test scripts as a basis for some KX2-specific scripts for Win-Test. New functionality at your keyboard fingerincludes ClearRIT. SwapVFO, RIT up/down, VFO up/down, A=B, B=A, Play/Record DVR voice messages, and the ability to generate CW or RTTY messages using radio's internal keyer (using Elecraft-specific KY commands). (Bob, N6TV)
- ♦ Mini-circuits has a new "DIY Vector Network Analyzer Kit" targeted as a "University Project." Their two-port VNA kit, containing all cables, calibration standards, and so on, is rated from 500 MHz to 6000 MHz, and is intended for use in UHF to microwave Electromagnetics lab courses, with support for Python, Matlab, and other programming environments. The price for the kit is \$2,495. (Ward, N0AX)

More Technical Topics and Information

(ARRL Contest Update — Sept. 5, 2018) <u>The Sun, The</u> Earth, and Near-Earth Space: A *Guide to the Sun-Earth System* by J. A. Eddy is a readable and accessible textbook that explains the dynamics of the Sun and its interaction with the Earth's ionosphere. It's available as a free download, courtesy of NASA and the International Living with a Star Pro-Anyone using the gram. ionosphere as a medium for radio wave transmission and wants to

better understand propagation should find this book of interest. (Ward, NOAX)

♦ A multi-layer coating that can insulate, absorb, and distribute heat from solar radiation is described by researchers as new way to remove ice buildup without power or chemicals. The key insight is that only the boundary layer needs to shed the ice. By melting just enough ice so that water is created, the ice can slide off of the surface. Perhaps this

will find its way into antenna construction to eliminate icing.

♦ There were a number of telegraph alternatives to the dots and dashes of Morse code at the beginning of the communications age. This IEEE Spectrum article describes differing signaling schemes, codes, and equipment, developed in the 1830s and 1840s including one where letters could be read out right from a dial.

		Membersh	ips Expiring in	September		
KB8	3J	KD8QXL		WB8FYR	WI	O8ODG
		Member	ships Expiring	in October		
KC8RTW		W8RBF		WN8QGV		
		Membersh	nips Expiring in	November		
	KA9WCS	S			KC0CJC	
		Mem	bers in Good St	anding		
AC8RT K0ACP K2VMH K6VWE K8GTG K8RI K8VB K8VFO	K8WSR KA9WCS KB8J KB8PGW KB8RCR KB8SOE KB8UIH KC0CJC		KD8OLC KD8QAM KD8QXK KD8QXL KD8ULJ KE8DON KE8EOS KE8JNA	KE8KDP N8CGP N8ERF N8GEM N8JBW N8NGT N8WTQ NX8A	W8LSS W8NYO W8PMR W8QN W8RBF W8WOJ WA8LQD WA8Y	WB8FYR WB8RCR WB8WNI WD8AXF WD8BPT WD8ODC WN8QGV
K2VMH 9/1		Birthdays Celebrated in September/October N8GEM 9/25		KC0CJC 10/15		
N8FUZ 9/17		W8WOJ 10/3		KB8PGW 10/25		
KB8SOE 9/19 KE8CTG 9/22		W8ZSX 10/5 N8WTQ 10/10				
		Anniversaries C	`		er	
KC0CJ0	and KB8QYC 9/6 C and Sally 9/12 and KB8AWE 9/18	K8	G8B and Janell 9 BRI and N8JBW 9 BRCR and Eileen	9/26	KB8SOE and D KC8IHB and KB	



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 Members	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