



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

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Swap Committee	Pat Russell W8PMR	(989) 832-2924
	Chuck Cribley WA8LQD	(989) 488-9409
	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 July 2, 2015, 6:00 PM  
Law Enforcement Center, 2727 Rodd St.  
Next CLUB Meeting — Thursday July 2, 2015, 7:30 PM  
Salvation Army Building, 330 Waldo.  
Talk-in 147.000+

#### December 2016

### Static Discharge

**John, W8QN**

Happy Holidays!! We are into the holiday season and its getting busy. Helping finish antenna projects, Santa Parade, Christmas shopping, family in for Thanksgiving and Christmas, and finally 2017 New Years. It comes and goes so fast so take time for yourself, to thank the almighty, and hug your loved ones. Just a reminder that Dorie French is organizing the club Christmas party and will be looking for a RSVP at the December meeting.  
The December meeting will occur at our regular place and time.

January meeting is The Christmas party, it will be held on the regular day and time but the QTH is Annabell's Own restaurant on 579 East Isabella Rd (M-20), just East of 5 Mile. Hope to see you there.

W8QN

## MARC Minutes

**Linda Hodges, KC8MUD**

MARC Meeting November 3rd  
2016

The meeting was called to order at 7:35 pm. by John W8QN with 30 members and guests present. A sign-in sheet was passed around and introductions were made.

### MARC MEETINGS

Mark Murray, W8MGM, 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 Marc at (989) 5137174, or via email: mark.g.murray@icloud.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@arrrl.net

### EXAMINATION SCHEDULE

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

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

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

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

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

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

### SUBMISSIONS FOR NEWSLETTER

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

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

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

### MEDIA HITS!

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

Meeting minutes are published in the newsletter if there are any corrections or additions please bring them to the attention of the secretary.

Presentation- Will Halphen K8VFO- After a brief follow-up on W.S.P.R. Will gave a High Altitude Balloon Launch Data Report. A long and interesting discussion followed.

Presentation- Earl N8ERO discussed the phenomena of magnetic resistors and transistors. After fomenting intrigue, Earl explain the reasons; steel wires bond well to a glass substrate, steel caps are used to connect to modern film resistors.

Awards- Steve WA8Y- Steve brought in several awards that he has recently received for his contesting abilities. Congratulations Steve.

Treasurer's report- Larry N8CGP-Thank-you to all the members who have renewed their license.

Christmas Party- Linda KC8MUD for Dorie N8WTQ- Dorie sent a list of restaurants for our members to pick from to have the Christmas Party at. The members chose AnnaBelle's Own on M-20. The party will be in place of the January meeting. More info to come.

NET CONTROLS:	Nov. 10th	Steve WA8Y
	Nov. 17th	John W8QN
	Nov. 24th	Chris KB8UIH

Christmas Parade-Linda KC8MUD for Dorie N8WTQ- Midland's Santa Parade is on Sat. November 19th . Participants begin lining up at 8:00 am. Riders and walkers are welcome to join Dorie to decorate her van and hand candy to the kids. Donations of wrapped candy will be greatly appreciated.

Newsletter- Pat KC8RTW- Pat is unable to do the newsletter this month and a sub will be needed.

Silent Key- Linda KC8MUD- Please note the passing of Gordy McCann WA8KJR.

Report-John WB8RCR- John gave a brief summery about the D-Star

*Amateur Radio  
is a Contact Sport!*

Repeater progress.

New Hams-Lee KC8ITI-Lee's 6 students have received their call signs.

A motion is made by Larry N8CGP to adjourn  
seconded by Cindy WD8BDM.  
The meeting ended at 8:55 pm

Respectfully submitted by  
Linda KC8MUD  
MARC Secretary

**ARES®/RACES John Wolters, W8QN**

No meetings for the next two  
months.

December and January  
Meetings are not scheduled.

## December 2016 Michigan Section News

Section Manager, Larry Camp WB8R has a web site;

<http://www.mi-arrl.org/>

I suggest going there to search for information and to follow posts from  
constituents and replies from the Section Manager.

Here is a brief list of Recent Posts from the left side of the website;

HB5867 Distracted Driving Bill Update

The Life of a QSL Bureau Letter Sorter

W1AW/x QSL cards now working their way through the Bureau

ARRL Twitter Feed is there for the perusing. Here are some recent  
topics;

Amateur Radio "Uniquely Situated" to be at Leading Edge Again...

Nov 11- Listen for #Ham Radio #Satellite ops from #AMSAT

Symposium in the Gulf of Mexico all this week.

"ARISS Milestones" Video Available

<https://www.youtube.com/watch?v=ufuyki21G6M>

Free Cubes in Space™ Program Offers Opportunity for Youth to Put  
Experiments into Space

<http://cubesinspace.com/>

US JOTA 2016 - Participation was Up

<http://www.k2bsa.net/2016/11/usa-jota-2016-flash-numbers/>

### Upcoming Events

ARRL Sweepstakes CW Nov 5-6  
ARRL Sweepstakes PH Nov 19-20  
CQ WW CW Nov 26-27

### Michigan Hamfests

12/4 Madison Heights  
LCARC new locaton  
Club Web Site:  
<http://www.n8lc.org>

1/17/17 Hazel Park  
2/19/17 Livonia

### Area Nets

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

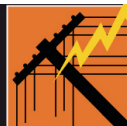
### MARC MERCHANDISE

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

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

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

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



### My Ham Activity

After 7 years, I finally tilted over my tower. Thanks to Will K8VFO, John W8QN, Dave N8LBF, Dennis N8ERF and tractor operator, Lee Fellows. I added 12 and 10 meter loops to my Quad, spray painted the fiberglass spreaders (for UV protection), greased the thrust bearing, re-coax-sealed and taped all connections. I painted anything that was rusting and replaced the tower bolts.

As the tower was almost down to the ground the tower started pulling the tractor. The tower pulled and the tractor skidded, my worst nightmare. It all happened in slow motion. It was only during the last few feet of lowering the tower. The Quad boom kissed the ground, everything shook but nothing got broke or bent. My friend, Lee Fellows brought a bigger tractor to pull it back up a couple days later and Will K8VFO came back, helped all day and stayed to test out the new Quad loops. The 12m Quad worked perfect and the next day I worked a new country on 12 meters, TL0A in the Central African Republic. The 10m Quad is ok but not perfect. I need to check my calculations on the series section transformer. But I noticed the wire diameter in EZNEC 6.0 had accidentally changed when I was re-sizing the loops. That may account for some of the error. Overall, the tower-tilt-over went well. I plan to do it again in the spring. I will make a 3 element 10 meter quad, a 4 element 6 meter Quad, and

maybe a 2 meter Quad.

November 5-6 was the ARRL Sweepstakes CW contest. A few days before this year's event I received First Place Certificates for the CW and Phone contests in the Michigan Section Single Operator High Power division. As I write this, the CW SS has ended. The goal of these contests; make a many 80-10m QSOs with as many different US and Canada stations as possible in a 24 out of 30 hours period, and exchange five pieces of information with each station. Your score is calculated by multiplying each call sign worked (2 points per call sign) X (number of sections worked). All that repetitive motion left me sore but my score left me satisfied. I improved my score but missed a clean sweep (working all 83 sections) by one section. With about two hours to go the bands broke and I just wasn't making any new QSOs. I gave up trying to make any more QSOs. Once again no-joy on a clean sweep. The section I missed this year; NL (Newfoundland Labrador). The Phone SS is November 19-20. And by then I'll be ready to compete again. I have only recently learned how to submit my computer log. I never used to take any of these contests seriously. After finishing better than I expected, I am encouraged to give them my best effort whenever possible. I always have fun in these contests and the Sweepstakes contests are no different. When you think about it, contests improve our efficiency

for ARES/RACES events.

Some day I'll get that holy grail in the Sweepstakes contest, I'll work all 83 sections in the US and Canada in just 24 hours! In the CW SS, I use a memory keyer built-in to my rig and sometimes I use the keyer built into N3FJP's SS logger. Most years of the Phone SS I had no voice keyer and my voice gets pretty sore. I keep a bottle of Chloraseptic near by. I really need to get my voice keyer working. The N3FJP logger can be loaded with .wav or .mp3 files (voice keyer) but last year my audio amplitude was too low to use them. I think I have the problem fixed and that will save my voice.

I had a fun with Art K0ACP and students from the High School club. We used the station for the School Club Round-up.

The trees have almost dropped all their leaves, time to get out the fishing rod and cast a few new lines into the trees. I need to fix my 80m reflector before winter. Yes, I have had a 3 element wire yagi for 80 meters. All wires were up over 1/4 wave, the element spacing was minimal on my one acre lot. It helped me work stations in the Middle East and South Asia.

At the December meeting, I'll present EZNEC, an antenna design simulator. I hope you enjoy it.

See you at the meeting,  
Steve, WA8Y



"An Amazing Night" Reported  
for Special Activity on 630  
Meters

11/14/2016

Texas radio amateur and FCC  
Part 5 Experimental licensee John  
Langridge, KB5NJD/ WG2XIQ,  
reported "an amazing night" for  
the 630-meter special event on  
November 12-13. One highlight  
was a North America-to-Europe  
Amateur Radio contact on the  
medium-wave band, to which US  
operators are still awaiting  
access....

Langridge credited radio amateurs  
in Canada, who already have  
access to the 427-479 kHz band,  
with playing "a massive role" in  
providing cross-band QSOs, with  
many showing up each night to  
listen for signals and make their  
own signals available. Advance  
publicity also helped, he said.

"I think all of the Part 5 operators  
who participated this year,  
whether beaconing or making  
QSOs, made for a fun event. For  
me, it's about communication, so  
to make meaningful QSOs with  
Mike, WD2XSH/12, and Eric,  
WD2XSH/46 (WG2XJM), is  
important to me." WD2XSH is  
the call sign of the ARRL 600-  
Meter Experimental Group.

Laurence Howell,  
KL7L/WE2XPQ, in Wasilla,  
Alaska, reported a lot of noise on  
VLF and warble on HF signals,  
with periods of total blackout  
overnight. Merv Schweigert,  
K9FD/WH2XCR, in Hawaii,  
experienced a massive night with  
stations in Japan. He shared two-  
way reports with JA1PKG and  
received reports from at least four

other stations in Japan. He was  
also able to decode VK4YB.  
more at

[http://www.arrl.org/news/an-  
amazing-night-reported-for-  
special-activity-on-630-meters](http://www.arrl.org/news/an-amazing-night-reported-for-special-activity-on-630-meters)

### **Two Radio Amateurs Set to Join ISS Crew**

Astronauts Peggy Whitson,  
KC5ZTD, and Thomas Pesquet,  
KG5FYG, and Cosmonaut Oleg  
Novitskiy will head into space on  
November 17 for a 6-month stay  
aboard the International Space  
Station.

It will take the Expedition 50/51  
crew members 2 days to reach the  
ISS in their Soyuz vehicle.

Welcoming the new crew  
increment will be Expedition 50  
Commander Shane Kimbrough,  
KE5HOD, and crew members  
Sergey Ryzhikov and Andrey  
Borisenko, who have been aboard  
the complex since October.

[http://www.arrl.org/news/two-  
radio-amateurs-set-to-join-iss-  
crew](http://www.arrl.org/news/two-radio-amateurs-set-to-join-iss-crew)

The New Baofeng DM-5R Dual  
Band DMR/analog HT is selling  
for \$69 on Amazon

The new HT has almost double  
the battery life per charge. I liked  
the comparison chart.

[https://www.amazon.com/Baof-  
eng-DM-5R-400-480MHz-  
Transceiver-Ultra-  
long/dp/B01LZ0FZFQ](https://www.amazon.com/Baofeng-DM-5R-400-480MHz-Transceiver-Ultra-long/dp/B01LZ0FZFQ)

### **3.916 Santa Net Kicks off Nov 25th**

For the 11th consecutive year,  
The 3916 Nets will be staging  
The Santa Net on 3.916 MHz.  
Good girls and boys will be able  
to talk to Santa Claus, via amateur  
radio, nightly at 7:30 PM

(Central) starting November 25,  
2016. The Santa Net will run  
nightly at 7:30 PM Central  
through Christmas Eve, December  
24, 2016.

Pete Thomson (KE5GGY), of The  
3916 Nets, commented on The  
3916 Santa Net. He said,

"Christmastime is our favorite  
time of the year on 3.916 MHz.  
We really enjoy being able to help  
young people experience both the  
magic of Christmas and the magic  
of amateur radio."

### **INDIA - AMATEURS TRACK POTENTIAL TERROR**

Jeremy Boot G4NJH For Amateur  
Radio Newline reports

India's Intelligence Bureau is now  
responding to reports from amateur  
radio operators who believe they  
have pinpointed the region from  
which suspicious radio transmissions  
have been intercepted. The hams  
spent several days conducting  
around-the-clock monitoring of the  
signals, which were sent at night  
along the border with Bangladesh.  
Ambarish Nag Biswas, VU2JFA,  
secretary of the West Bengal  
Amateur Radio Club, has been  
listening on VHF with club members  
after authorities had expressed  
concerns that the transmissions might  
be linked to extremists or terror  
activity.

A report in the Indian Express notes  
that the coded transmissions, heard at  
night, appear to have been pinpointed  
as coming from the West Bengal  
region of Basirhat. Basirhat has been  
widely viewed as a nexus for  
terrorism.

## **Contest Corner    Art Peters, K0ACP**

With the arrival of fall, so starts a new season in Radio Sport, you know contesting.

The season has a warm-up period, with the summer NAQP, North American QSO Parties in July and August, but that is just the training runs. The first big major of the year comes in September, the CQWW RTTY contest and runs from Friday night to Sunday evening.

October hosts the CQWW Phone, as well as the Pre Stew (a warm-up contest for the Big Stew Perry 160 meter CW Challenge in December). October is also where the week long School Club Roundup occurs and is a great chance to work schools and aspiring testers - also a great recruiting tool. By the way, MARC members N8ERF, WA8Y, and K0ACP, worked the W8MHS station (M2 - multi-two radios) this year at the Midland High Electronic Wireless Communication Club.

November holds three major efforts, including two of my favorite, the ARRL Sweepstakes for both Phone and CW, as well as the CQWW CW. Our very own WA8Y has

won the State of Michigan for the past two years in the SS CW, I am sure hoping for him to three-peat this year!

Finally, December stars off with the ARRL 160M contest, as well as perhaps my overall favorite contest the Stew Perry 160M CW challenge. The fun about the Big Stew is that your score / performance is indexed to the distance between you and each of your contacts.

That means the further the contact QTH, the higher your score!

This has been just a brief flyover of the major fall contests, next month, we'll look at what happens in the spring.

If there is any topic that you may want covered in the realm of contesting, drop me a line at: K0ACP@arrl.net.

73, Art/K0ACP

## **More ARRL News and Information**

### **Chinese Students' FM Transponder Satellite Launched    11/11/2016**

"Dream 1" (CAS-2T), a "technical verification satellite" for the CAMSAT CAS-2 series of Amateur Radio satellites, was launched on November 9 on board a Long March CZ-11 rocket.

Developed by middle school students with the support of China's Academy of Launch Vehicle Technology, the Science and Technology Museum, and the Eastern Highlands Qian Youth Space Sciences Organization, the 2U CubeSat carries a ham radio 145/435 MHz FM transponder.

CAS-2T will not separate from the final stage of its launcher rocket, so the orbital life may be just 10 to 30 days before the final stage of the rocket re-enters Earth's atmosphere.

CW telemetry beacon: 435.710 MHz. Transponder uplink: 145.925 MHz FM. Transponder downlink: 435.615 MHz — thanks to Alan Kung, BA1DU

### **November Frequency Measuring Test Results Reported    11/15/2016**

The [results](#) are in, and more than 90 submitted entries for the November 3 running of the Frequency Measuring Test ([FMT](#)). Thirty stations were able to pull off a "triple play" by correctly measuring the frequencies of all three transmitting stations with an accuracy of less than 1 Hz: The precise frequencies? From K5CM: 3,599,405.34 Hz and 7,064,522.24 Hz. From W8RKO: 3,599,637.70 Hz and 7,064,326.30 Hz. From W6OQI: 14,121,266.44 Hz. Measurement equipment ranged from a standard transceiver calibrated against WWV or CHU all the way to rubidium frequency standards. Several reported building their own test equipment, and the use of GPS-disciplined frequency references and oscillators is becoming more common with every FMT. Making the measurement was done by frequency counters, software spectrum analysis, and even by ear — sometimes by two people.

The next FMT will be in April 2017. — Thanks to Ward Silver, N0AX

*Explore the World with Amateur Radio!*

### **VP8DPK Offering a Short Window to Work South Georgia**

If you missed putting South Georgia into your log during the [VP8SGI](#) DXpedition early this year, VP8DPK is set to be active from the Southern Atlantic Island November 15-19. Working him could be a challenge, however, as operator Chuck Pettis, W7AUM, will be running low power on SSB into a minimal antenna.

VP8DPK was on the air for a few hours from the Falkland Islands on November 12, making 70 contacts “with a massive pileup” from the station of VP8LP in Stanley. En route to South Georgia, he operated maritime mobile from the bridge of the National Geographic Explorer.

After his scheduled VP8DPK operation from South Georgia, Pettis plans to operate from various Antarctic Peninsula locations as W7AUM/P. When portable, he may be running as little as 10 W to a wire antenna on a 30-foot pole with a counterpoise. He plans to operate SSB on 40, 20, 17, 15, and 10 meters. Look for him around 7.285, 14.285, 21.285, and 28.385 or 28.885 MHz. QSL via W7AUM. — Thanks to [The Daily DX](#)

### **[TL8AO](#) Central African Republic active from Nov 10 to 22 is also Humanitarian Fundraising**

My budget is about 7000 US dollars. I am not seeking donations to cover my own expenses, but I try to do some fundraising for Doctors without borders in C.A.R who have been in C.A.R since 1997 providing humanitarian aid to the residents.

100% of donations received will be given to the DWOB. It is important to state that this DXpedition

is not in co-operation with DWOB – they are solely the recipient of the donation. They have acknowledged this fundraising, and use of their logo.

### **[8Q7DV](#) Maldives Active During the CQ WW CW Nov 26-27**

UA9CDC, UA9CTT, R9CL and R9DX will be active as 8Q7DV from Sun Island, Maldives during the CQ WW CW contest. Activity outside contest also planned. QSL via UA8DX.

This is one of the most challenging locations to work from Michigan.

### **[9Q6BB](#) The Democratic Republic of the Congo**

Fernando, EA4BB is in Goma, DRC and will active from The Democratic Republic of the Congo up to 3 years as 9Q6BB.

He will operate on HF Bands.

QSL via W3HNK.

### **[E44QX](#) Jericho Palestine**

Bodo, DF8DX will be active again from Palestine 8 - 12 December 2016 as E44QX.

This time he will operate also on VHF EME. They will operate on 80 - 10m CW, SSB, RTTY.

QSL via DF8DX, OQRS, LOTW.

### **[A5A](#) Bhutan**

JH1AJT, DJ9ZB, E21EIC will be active from Bhutan in September 2016 as A5A.

They will operate 80 - 10m CW, SSB, RTTY.

They will use Kenwood TS-590 transceivers with 1,3K FA amplifiers, tribanders and wire verticals.

QSL via JH1AJT, OQRS ClubLog

## For Sale

S16 BELL & HOWELL/DEVRY TV SERVICING COURSE WITH HEATHKIT GR-2000 UNASSEMBLED KIT AND CABINET W/O PICTURE TUBE \$200 note due to the number of boxes pick up only. S16

5 FOOT 19 INCH RACK MOUNT CABINET 2 DOORS \$25 pick up only S20

Contact Lee KC8ITI email [kc8iti@arrl.net](mailto:kc8iti@arrl.net) or call (989) 486-3771

## **MARC Vital Statistics**

### **MEMBERSHIPS EXPIRING IN NOVEMBER 2016**

KA9WCS KC8IHB N8DHF

### **MEMBERSHIPS EXPIRING IN DECEMBER 2016**

KD8ULA N8LOU

### **MEMBERSHIPS EXPIRING IN JANUARY 2017**

AC8QF KB8PGW KC8CTG KE8CTH WB8WNF

### **MEMBERS IN GOOD STANDING**

AC8QF	AC8RT	AG8B	K0ACP	K6VWE	K8RI
K8VB	K8VFO	KA9WCS	KB8PGW	KB8SOE	KB8TBI
KC8CTG	KC8IHB	KC8ITI	KC8MUD	KC8RTW	KC8TQS
KD0JHX	KD8HIH	KD8IWB	KD8MMH	KD8MRB	KD8QAM
KD8QXK	KD8QXL	KD8ULA	KE8CTH	KE8CTI	KE8DON
KE8DOP	KE8EOW	KE8EOX	N8CGP	N8DHF	N8ERF
N8JBW	N8KRL	N8LBF	N8LOU	N8NGT	N8WTQ
NX8A	W8LSS	W8PMR	W8QN	W8WOJ	W8ZSX
W8ZSX	WA8KJR	WA8LQD	WA8Y	WB8FYR	WB8RCR
WB8WNF	WD8AXR	WD8BPT	WD8ODG	WN8QGV	
TOTAL 59					

### **BIRTHDAYS CELEBRATED IN NOVEMBER 2016**

WN8QGV 11/4 K6VWE 11/13 KB8UIH 11/27 N8UPP 11/14  
KC8GQK 11/19 N8NVL 11/28 KD8FQF 11/21

### **BIRTHDAYS CELEBRATED IN DECEMBER 2016**

KC8TQV 12/1 KD8COB 12/5 KE8CTH 12/5 WB8WNF 12/7  
N8KS 12/10 N8ERF 12/10 KB8TSO 12/13 KE8DOP 12/18  
N8CGP 12/21 NX8A 12/22 WD8KEW 12/28 WD8KTB 12/28

### **ANNIVERSARIES CELEBRATED IN NOVEMBER 2016**

N8DHF and KB8QWO 11/17 KC8KOC and Jennifer 11/23

### **ANNIVERSARIES CELEBRATED IN DECEMBER 2016**

KB8UIH and Shelley 12/8 W8WOJ and KD8HIF 12/12  
W8PMR and KD8IWB 12/16 KD8FQF and KD8GRQ 12/19  
K7GTK and WZ8Z 12/22 N8ERF and N8NNA 12/23  
W8ZSX and WD8BDM 12/23

Information is from data received 10/14/2016  
Any corrections or questions contact Larry, N8CGP

***Amateur Radio. . . We Do That!***





Steve Linley filling in for Pat Mullet  
as Newsletter Editor  
2311 N Aspen Ridge Dr  
Midland, MI 48642

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**