



THE SCOPE



The Central Michigan Amateur Radio Club and Lansing Civil Defense Repeater Association

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CENTRALMIARC.COM

Parts of a Tube, the All American 5, and a Go Box

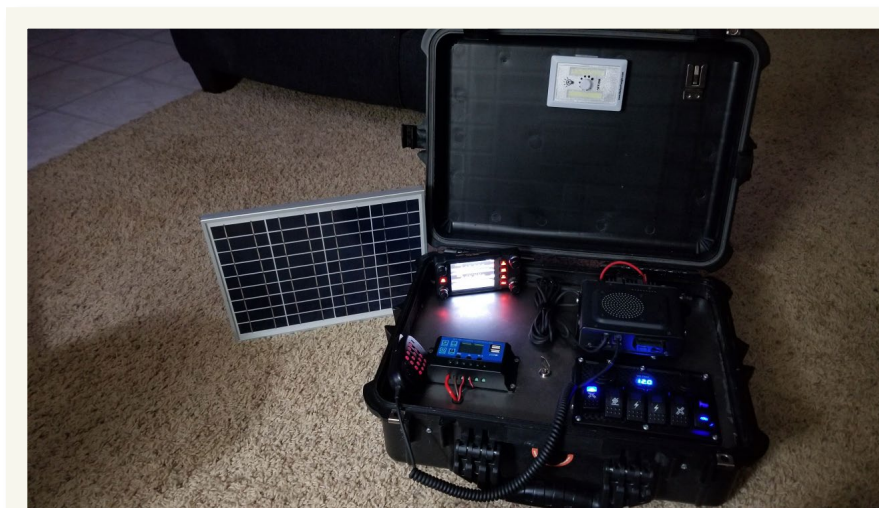
At the meeting on February 8th, Gordy Smith (KE8JKS) presented various pieces of equipment including an old vacuum tube, which had been cut apart to better show the parts inside, a Victrola record player, and an old AM radio set called an All American 5, which ran on a set of five tubes. Dan Dembinski (KD8YDE) introduced his new "go-box". Further details, including additional pictures and a material

list, will be published in the next issue of the Scope.



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Treasurer's Reports 2018

Daniel Beuchert / WX8MOJ- CMARC Treasurer

Bank Balances for November	
Beginning Balance	\$3,024.49
Total Monthly Income	\$271.00
Total Monthly Expenditures	(\$40.00)
Total Business Checking	\$3,255.49
Petty Cash	\$1.00
Outstanding Checks	(\$0.00)
Sub Total + Petty Cash	\$3,256.49
Primary Share Accounts	
Humphrey's Fund	\$383.74
Building Fund (Club Station)	\$19.09
Field Day	\$528.35
Total Net Worth	\$4,187.67
Youth Fund Balance*	\$254.40
* Separate from CMARC Funds	

Bank Balances for December	
Beginning Balance	\$3,255.49
Total Monthly Income	\$202.00
Total Monthly Expenditures	(\$419.85)
Total Business Checking	\$3,037.64
Petty Cash	\$1.00
Outstanding Checks	(\$80.00)
Sub Total + Petty Cash	\$2,958.64
Primary Share Accounts	
Humphrey's Fund	\$383.77
Building Fund (Club Station)	\$19.09
Field Day	\$528.39
Total Net Worth	\$3,889.89
Youth Fund Balance*	\$254.42
* Separate from CMARC Funds	

The Scope is a bi-monthly joint publication of the Central Michigan Amateur Radio Club and the Lansing Civil Defense Repeater Association.

Please send any articles, classified ads, or other items to the Editor, Chris Ranes, NS8Q at cmarscope@gmail.com. Pictures should be mailed in .jpeg format, and articles in Microsoft Word or TXT format.

The views and opinions expressed by our contributing authors do not necessarily reflect the views of the Central Michigan Amateur Radio Club or the Lansing Civil Defense Repeater Association.

February Birthdays:

3rd John Kucher / KD8TNW
4th Cheryl Davage / KD8QFE
5th Mike Holcomb / WX8MH
8th Steve Lyon / W8RQS
Dennis Shubitowski / NS8H
12th Tom Rocheleau / WA8WPI
14th Don McLain / KB8RAD
24th Ron Harger / WD8BCS
26th Russ Fitzgerald / N8FZ

February Anniversaries:

11th Bob Crawford / K8ZAP

March Birthdays:

3rd Jolyon Vincent / KD8HZY
5th Roger Goodman / KB8YQX
11th Jacob Emling / KE8GMB
16th James Fick Jr. / KE8ABZ
Ed Hude / WA8QJE
17th Charlie Swieringa / AC8YO
19th Peter Miller / AC8YF
20th Bob Crawford / K8ZAP
23rd Alton Stoddard / KD8MB
Herbert Terbrack / KB8QEZ
28th Tyler Head / KC8LWG
Bob Leder / WJ8D

March Anniversaries:

4th John / KD8NNQ and Paula Doornhaag
11th Jacob Emling / KE8GMB
12th Paul Keefer / KB8YQZ
17th Tom / KB8ZL and Sharon / WB8YAC Cain

Upcoming Meetings:

CMARC Monthly Meeting

When: 7:00 pm, Friday, March 8, 2019

Where: Lansing Mason Area Ambulance
Training Facility
807 Kerns Rd., Mason, MI 48854

ARPSC Monthly Meeting

When: 7:00 pm, Monday, February 18, 2018

Where: Lansing Fire Station 48
off Marshall Rd. South of Grand River.

Introducing our new 2019 CMARC Board

President:	Michael Boensch W8MKB
Vice President:	Gordy Smith KE8JKS
Secretary:	Shannon Ranes WA2NVK
Treasurer:	Dan Beuchert WX8MOJ
Director:	Gregg Mulder WB8LZG
Director:	Carl Canfield K8YHH
Under 22:	Don McLain KB8RAD

Attention all CMARC Ladies

We are planning our March luncheon on Saturday, March 2nd. Watch your email for further details on a time and location.

ARRL Volunteer Exams



Sponsored by the "Ingham County VE Group"

To best accommodate the various schedules of those wishing to test, the Ingham County VE team meets on either a Saturday morning or Thursday evening, every other month. We test in the Community Room at Lansing Fire Station #44 located at 1435 E. Miller Rd., Lansing, MI 48911-5322.

Contact: Don McLain (KB8RAD) (517)930-7707 KB8RAD@arrl.net

Saturday, December 1, 2018

General: Allan Ostrander (KD8VJD), Timothy Clay (KC8THC), Jeffery Flint (N4ZKS)

Technician: Stephen Pietras (KE8LAK)

Thursday, December 6, 2018

General: Timothy Coffee (KE8LDT)

Technician: Douglas Bacon (KE8LBW)

Saturday, January 12, 2019

Extra: Matthew McCormick (KE8CRV)

General: Michael Grossbauer (KE8HLA), Wilbur Doolittle (KE8LGZ),
Douglas Bacon (KE8LBW)

Technician: Conner Schury (KE8LGY)

Thursday, February 7, 2019

General: Robert Felster, Stephen Pietras (KE8LAK), Volkan Yildirim (KE8KYB),
Tyler Peterson (KE8KXY),

Technician: Varum VenkatRao, Nicolau Esteves, Graham Mackie, Cody Shaffer, Andrew Miller

Upcoming VE Exams

Saturday, March 9 @ 11:00 AM Thursday, April 4 @ 7:00 PM

Saturday, May 11 @ 11:00 AM

Ziegenbein Nominations

It's time to begin thinking about who you would like to nominate for the 2018 Ziegenbein Award.

For those of you who are not familiar with the award - it is presented each May to the Full CMARC member who has contributed the most to Amateur Radio, in general and CMARC, in particular **for the previous calendar year.**

Nomination Guidelines

1. The recipient must be a **full, current** member of CMARC
2. Nominations to be made in writing, in your own words, **no** chain letters to be accepted, stating nominees contributions to CMARC and Amateur Radio.
3. All nominations are to be kept secret until the award is presented.
4. All nominations are to be mailed (regular postal mail **OR** email).
5. The same person can receive the award more than once.
6. The Committee shall consist of the last three recipients; the senior member shall be the chairman.
7. All nominations are to be closely checked and discussed by the Committee.
8. If the Committee feels the nominees are not deserving, the award does not have to be given.
9. Nominations are to be submitted before **March 15th** of each year, so the Committee can make the selection and have the plaque engraved.
10. The recipient will be announced at the annual Ladies' Night.

REMEMBER

Your nominations for the Ziegenbein Award are due March 15th. This year's Senior Chairman of the Ziegenbein Committee is Chris Ranes (NS8Q).

Send your e-mail nominations with a subject line of **"Ziegenbein Nomination"**, to ceranes@sbcglobal.net.

If you prefer to use snail mail:

Chris Ranes
1728 Cooper Ave
Lansing, MI 48910-2666

Write **"Ziegenbein Nomination"** on the envelope.

Forgotten, misunderstood, and underutilized portable antennas



These days it seems there are far more portable and special event style stations on the air, from a wide variety of

venues and locations than ever before. Summits on the air, Parks on the air, ops from submarines and ships, to lighthouses. All make and manner of portable ops.

In the process of working many of these /p stations, I've noted that many of them use the same antennas: dipoles, Verticals, and other wire skyhooks.

These aerials are good antennas when installed properly, but how portable are they? We will examine them and several alternatives.

The Dipole

Mounted high in the air it's hard to beat the $\frac{1}{2}$ wave dipole. In a REAL portable operation, you can get the wire size down to 18 gauge or so to save weight, but the feedline is always the heavy part of the getup. Fifty feet of RG58u may not seem like a lot of weight but try hiking it up a mountain. Fifty feet of open wire type "ladder line" is about half of that weight, yet if you get more than 100 feet, it adds up also. Still, you can pack up a 40-meter $\frac{1}{2}$ wave and 100 feet of coax, a couple of insulators, and some twine to tie it up with, and remain under 8 or 10 lbs. Fed in the "inverted vee" configuration, they only require a single support. All things considered, the dipole is a good portable antenna. At a height of over $\frac{1}{2}$ wavelength its radiation efficiency is very good. Nearly anything less is a compromise radiator.

Verticals

Many of them are of the commercial variety. They are made to withstand the seasons, and work fine for home or FD style operations, but this makes them downright "heavy" for SOTA work or backpacking. There are smaller, lighter, verticals out there, but not as popular.

Yet some, like the "PAC 12" give multiband ops in a small, lightweight pkg. I've used lightweight "wire" element verticals with some degree of success, but they nearly all seemed just "so, so" for performance. Increase in efficiency can be had by adding more radials, but also more weight.

EFHW: End Fed Half Wave

As its name implies, the antenna is fed at the end. Hooked right to the rig or tuner, it can be a very light weight and portable antenna, but the center of the span must be up in the air over 30 feet or so for it to radiate effectively. Remember it's the current that does the "work" in a radiator, so we need to get that portion of the antenna as high in the air as possible. The EFHW is particularly good for backpackers who know the area where they may find tall trees for supports. Installed properly it offers the same performance as a coax fed dipole at the same height, without the coax. This can be a huge advantage when you're "packin in" everything for a long hike.

Mag Loop

Many of the commercial mfr's are marketing a small closed loop antenna system that attempts to save space while allowing operation on a picnic table. They are fed with coax and some are relatively lightweight. I have owned and tested a few of these mini-loops. They can be used in places where there simply are no tall supports to be found. (like on a barren mountain summit)

They will put out a signal like a ground mounted vertical when tuned properly. They suffer from very narrow bandwidth and their small capture area make them poor receivers at best. I found them to be WAY overpriced, and way under performance. Many are also not very portable, weighing in over 10 lbs. There is an out fit that offers a setup that's small enough to pack away into a ditty bag, but it still a bit heavy. (and pricy) So I decided to try building my own to see if I could improve upon the performance and keep the lbs down. I started with 2 pieces of spruce furring strips. 1 inch wide, $\frac{1}{4}$ inch thick, by 6 feet long. Stapled together in an X and

See FORGOTTEN ANTENNAS, Page 7

screwed into a 1 by 2 by 8 to get it off the ground. In the “X” ends I cut small notches ¼ inch apart and proceeded to wind # 22 gage wire around and around until I had 67 feet wound on my “spinning wheel”. A small cap across a BNC connector and she was ready for juice. It tuned up nicely on 40 meters but had a very narrow bandwidth only about 10 kcs and you’d need to retune. But I did make QSO’s with it, and it beat the commercial jobs hands down. This due in part to the length of wire and slightly larger overall size. (more capture area) If your considering one of these commercial mag loops, save your money. If you must have one, build your own. About \$9.50 with all new parts. But I’ve used indoor dipoles that worked better. Remember this rule of thumb for antennas, Small size equals Small performance.

These aerials make up most of the antennas that I hear “on the air” from stations on portable ops. What about other types of lightweight portable antennas? Surely there must be many more options for sending radio waves. A quick flip through the old “Antenna Handbook” and I found several ideas. Here are a few for you to ponder in springtime.

ALTERNATIVES

The Long Wire

I’m talking about a wire that is several wavelengths long. On 80 meters, this may mean 400 or 500 feet of wire. There are sometimes when “space” will not allow. But when there is room for a it, a long wire is a great antenna. It will provide gain over a dipole in several directions. It’s also easy to “feed”, just run the wire right to the end of your tuner. Or it may be fed with ladder line up to an aerial support. (tree, tower, etc.) It may also be fed with coax to a tuner, but it may be a bit finicky to tune on some bands. I made a 650-foot-long wire out of an old reel of RG174u coax that I picked up at a swap meet for a song. The 174u was strong and light. It did weigh more than bare copper, but the braided construction gave it extreme strength. I shorted the braid and center conductor, and it was strung out in a straight line leaving the house at a 45-degree vertical for 40 feet of height, then out through the trees going SW with the other 600 or so at an average height of 40 to 50 ft. It worked like

gain busters on 80, 40, 20, 15 and 10m. On 20 and 40 meters I had a “beeline” into New Zealand nearly every day, and it would “hear” well even when my vertical indicated a dead band.

As a portable aerial, it is a good choice. Lot’s of bang for the buck.

500 or 600 ft of 16 or 18 gage wire (or mini coax) only weighs 8 or 10 lbs. The only problem is enough supports every 30-50 feet to keep the whole thing in the air.

Full-Wave Horizontal Loops

Loops are good too. Including the Delta loop, they have bit more gain than the dipole, (more wire) but require more supports. (at least 3) More wire also means more capture area, and the loop will really “hear” well. A closed loop will also pick up less noise, and this is one of the things that make them desirable. They can also be fed with coax or ladder line. If you can get them up high, they can be real performers. However, finding 3 or 4 supports over 30 or 40 feet can be the thing that stops many from using them. Smaller gage wire can be used to keep weight down. Some backpackers even use small gage 300-ohm TV twin lead for the feedline to trim extra ounces. Another configuration would be to hang it in the vertical plane. Hung over ½ wavelength high, it will behave like a dipole in radiation pattern, but because it is twice as long, it will have a slight gain over a dipole. (about 1 db)

The Windom

This is also a “Half Wave” antenna and has similar characteristics to a dipole. BUT it only needs a single wire for a feedline. The single wire is fed at the “sweet spot”, about 1/3 the way from one end. NO, I’m not talking about a coax fed off center fed dipole. NOT the same critter at all, but often confused. Many commercial mfr’s are selling Off Center Fed Dipoles and calling them “Windoms” Totally FALSE! these antennas are NOT Windoms. Merely a coax fed dipole, that’s not fed in the center.

The Windom has several advantages over a standard coax fed halfwave dipole. First is the Windom tunes up on it’s fundamental freq and all multiples. Not just one or two. This means you can bring a Windom for 80 meters and use it on 80, 40, 20, 10, and 15 will probably be happy too. The “sweet spot” has a input impedance of about 200 ohms. An easy enough match for any tuner. And the feed wire needs only to be big enough to be able to support the

physical weight of itself and the power running through it. This means you can use # 18 gauge or smaller wire and the whole thing be under a couple of pounds. The second plus is the feed wire length is not critical. Lengths up to 200 feet can be used without negligible effect on the radiation pattern. Yes, there may be some energy radiated from the feedline, but who knows, this may get you a QSO in another direction.

For serious backpackers, the Windom is hard to beat. An extra bonus is with small gauge wire it's stealthy, nearly invisible.

The Bobtail Curtain

The basic Bobtail curtain looks like a letter "E" turned on its side. The 3 vertical elements are $\frac{1}{4}$ wavelength, and the top span is $\frac{1}{2}$ wavelength between each of the vertical spans. It requires a bit of real estate in comparison to a dipole, (a full wavelength long) but will give broadside gain of 2 or 3 db over a dipole. Usually feed in one of the corners with coax, it may also be fed with ladder line. Some have had good luck feeding it at the bottom of the center element like a vertical with a counterpoise wire. Since it's all wire, it can be built very inexpensively, and is a good choice for ops who may want a portable aerial with a bit more gain.

Two-Element Wire Vertical Array

This antenna is like the Bobtail curtain but is fed at or near ground level. As such it needs to have radials under it to be effective. The radials can be very small gauge wire to save weight. A length of phasing feedline will give the user either "end fire" or "broadside" radiation pattern dependent upon the phasing. The directional pattern can be advantageous if your trying to contact a particular area or direction.

Bruce Array

This aerial was invented in the 1930's by Edmund Bruce. The array is so simple, it's hard to believe it was not invented or discovered earlier. The array is made up of one wire, several wavelengths long and in the shape of a "square wave" with each side measuring $\frac{1}{4}$ wavelength. Fed in the center of one of the vertical sides with open wire or ladder line. It has a gain over a dipole of about 1 db for each vertical element. (4 elements = approx. 4 dB) For portable ops the wire can be fairly thin. 18 gauge will do just fine for this, but heavier gauges need to be used for large spans, unless non-conducting "stringers" are used to help support the spans. The Bruce array is big, but also gives big performance. The weight of the wire, feedline, and support ropes can be changed to provide light weight for portable ops, but for lasting installations heavier gauge wire should be used. My 5 element 20 M version weighs in at about 8 or 9 lbs. Many of you who have attended CMARC Field Day the past few years got a look at them in action.

Moxon Rectangle

Named for its creator, is a beam/loop antenna that is stretched vertically so that the vertical sides are abt twice the length of the horizontal ones. Cut top and bottom. Fed in the middle of one of the vertical elements, it has a 2 dBd gain in the direction of the feed point. Made with just wire and insulators, it can be very light and cheap too. Nice if you want to aim your signal and not break the bank.

Well certainly these are not all the antennas available to the hiking ham, but this should give you an idea or two to chew on while we all wait for the weather to warm up. Get out your wire and pliers! ■

Amateur radio (illegally) aiding yacht racers



The Golden Globe Race, a 30,000 mile, non-stop solo yacht race to celebrate

Sir Robin Knox-Johnston's historic 1968/9 world first solo non-stop circumnavigation. There are 18 sailors in the race, which started on July 1, 2018 from Les Sables-D'Olonne, France.

Amateur radio is at the heart of the latest controversy surrounding the race. Scuttlebutt Sailing News reported (<https://www.sailingscuttlebutt.com/2019/01/21/maintaining-information-barrier/>) on January 21, 2019 (day 205 of the race):

“Sailors have been making use of the Amateur Radio net (ham radio) for decades, and while National telecommunication authorities have often turned a deaf ear to unlicensed operators using made-up call signs while at sea, warnings from a National regulator to Golden Globe Race skippers has created intrigue into an exciting finale for race leaders.

“Modern navigation and routing tools are restricted from use in the 2018-19 contest, limiting GGR skippers to the type of equipment available for the inaugural Sunday Times Golden Globe solo non-stop round the world race in 1968-69. That includes Amateur Radio.

“The skippers have been using this free communication system to gain weather forecasts and maintain contact with their teams, which is allowed under the Race Rules. However, it is the responsibility of each skipper to ensure that they abide by National and International regulations which Jean-Luc Van Den Heede and Mark Slats, in first and second in the race, have not been doing. [[Neither Van den Heede or Slats have valid amateur radio licenses...Dan]]

“Said the warning, ‘You use an amateur callsign and are making connections with amateur radio operators. The call sign letters are not registered, and thus illegal. I ask you to stop. If you have a legal amateur callsign then I urge you to present it.’”

As a result of this warning, Slats is considering dropping out of the race, even though the race is nearly complete. Yachting Monthly reports (<https://www.yachtingmonthly.com/boat-events/golden-globe-race/golden-globe-race-slats-considers-quitting-comms-row-68574>):

“Mark Slats, who is less than 50 miles from Golden Globe Race leader Jean-Luc Van Den Heede, has announced he is thinking about retiring from the race after being banned from broadcasting on the Ham Radio Net.

“Race organisers said the Dutch skipper does not have the required licence, and has been warned by the Dutch authorities to stop broadcasting, which has left him unable to communicate with his shore team.

“Under the rules of the race, all of the entrants are able to use this free communication system to gain weather forecasts and maintain contact with their teams, but, it is the responsibility of each skipper to ensure that they abide by national and international regulations.”

It's not only the yachters that are flouting the rules, it's the amateur radio operators who are communicating with them. According to Yachting Monthly, OFCOM, the UK regulator issued the following warning:

“Fair warning both to unregistered GGR skippers and to legitimate Ham radio operators communicating with them. In Britain, the Ham Radio net is controlled by OFCOM, which recently revoked more than 500 licences

for non-compliance.

This includes communicating with unregistered Ham radio operators. The maximum penalty is 6 months in prison, a £5,000 fine and loss of their licence.”

This is a fascinating story, and I wish that I’d found out about this sooner. It would be interesting to listen in on some of these communications. One question I have is why these guys failed to obtain a valid amateur

radio license? The Golden Globe Radio website notes, “[The race] will be sailed under the auspices of the Royal Nomuka Yacht Club in the Kingdom of Tonga. His Royal Highness, Crown Prince Tupouto’a Ulukalala is Patron of the Race.” They probably could have issued valid amateur radio licenses to all the racers.

If any of you have heard the communications or know any more about the technical details, I’d love to hear from you. ■

Make ham radio a habit

Every week, I get an email newsletter from Penguin Random House called Signature. Signature includes links to articles about books and writing. Being a writer, I clicked on the link to “5 Good Writing Habits You Need to Learn Now.” As I was reading the article, it occurred to me that the advice could also apply to amateur radio. So, with apologies to the author, Lorraine Berry, here are five things you can do to make ham radio a habit:

1. To get on the air more, or to do more building, set up a time to do it. If you enjoy getting on the air or homebrewing, but never seem to be able to find the time to do it, you need to put it on your schedule. Set aside the time a couple of days, or a week, or even a month in advance, and you’ll be more likely to do it. If you set up a regular time every week, pretty soon it will be a habit.
2. If ham radio is important to you, create an environment that encourages you to do ham radio. To make ham radio a habit, you really need a place that’s set up to do ham radio. If you have to dig out and set up your equipment every time that you want to get on the air, you’re just not going to do it. You need a “shack” that makes it easier for you to engage in the hobby. Richards, K8JHR, gave me some great advice back in 2012 on where and how to set up a shack (<https://www.kb6nu.com/building-a-new-shack/>).
3. Create temptations that reward you for your new habit of ham radio. For me, being able to make interesting

contacts, or building some new gizmo, is reward enough, but you may want to reward yourself with a beer or some ice cream after an operating session.

4. Make it easy to do what you like to do. This is related to #4. Your shack should have everything you need to easily do whatever ham radio activities you enjoy doing. If you enjoy operating, then it should have a nice operating desk. If you enjoy building, then set it up so that all of your tools are readily accessible. The easier it is to do, the more likely it is that you’ll do it. If you enjoy operating portable, then build up a kit that has all the stuff you need, and have it ready to go when you’re ready to go.

5. Start with the Two-Minute Rule for new habits and continue from there. The “two minute rule” (<https://www.lifehack.org/articles/productivity/how-stop-procrastinating-and-stick-good-habits-using-the-2-minute-rule.html>) is a tool to help you overcome procrastination. The idea is to allot just two minutes to a task that you’d like to complete or a skill that you’d like to develop. It’s a small commitment, but enough to get you started, and the idea is that once you’re started on a particular task or project, continuing work on that task or project becomes a lot easier. Those two minutes could easily become a half hour or an hour once you’ve gotten the ball rolling.

Armed with this advice, I’m expecting you to be a more active ham in 2019. I’ll be listening for you on 40m. ■

Product Reviews

Rick Polden / VK7RI



What's in an App?

Recently I wanted to test a pair of headphones, sure I could plug them into my iPhone and play some music but where's the fun in that?

Not having access to a signal generator I began to think what else could I do? Well like most things these days there's probably an App for that, so a quick search of the App store and yes there a number of Apps to satisfy my need.

Being a budget of "lets not spend anything" I settled on "Signal Generator" as it's free app, well for the basic version is free with "In App" purchases for the various add-ons but for now we'll look at the free version.

Once you open the App you are presented with three dial controls, Range, Gain (dB) and Frequency (Hz)

At top left is the Range adjustment with a range beginning at "Sub" through to "Sup".

With the frequency control set at 20 and the range set to sub we have a starting tone of 20.0Hz, adjust the frequency control to 80 and range now starts at 80.0Hz.

Total frequency range is 20.0hz through to 20000.0Hz which is actually quite impressive and according to Wikipedia this the range of the human hearing with the higher end frequencies dropping off as we get older.

With the gain at maximum I could hear from 20.0Hz through to about 15800.0Hz proving my hearing is deteriorating.

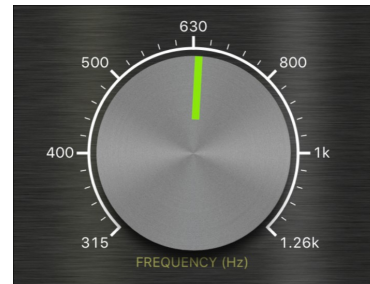
Top right of the screen is the Gain control with a range of -90Db through to 0Db.



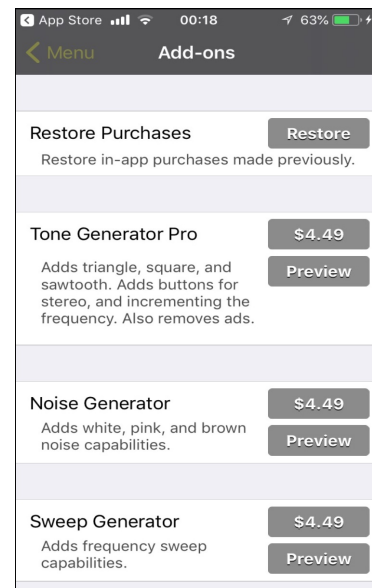
Directly above the range and gain controls is a LED style readout displaying the respective range and gain settings. Touch the displays with your finger and it will enable you to input precise frequencies and gain settings.

A word of warning at this point, if you download this App and connect a pair of headphones do NOT set the gain to maximum with the range and frequency set to their maximums (20000Hz), it's loud

At the bottom of the screen is the main frequency control and depending what you have set the range control to adjusts the Frequency range accordingly.



In summary I found this App to be quite effective and easy to use and well worth a look at. I didn't purchase any of the additional Add-ons but by the features they add I will be adding them.



This is an iPhone app and I would assume there similar Apps for Android and Windows based smart phones.

For those of you who would like to download the app here is the link for it.
<https://itunes.apple.com/au/app/signal-generator-audio-test-tone-utility/id543661843?mt=8>

BRIEFS

Amateur Radio Newline
Report #2153 for Friday,
February 1, 2019

FCC resumes operations after partial U.S. Government shutdown.

We begin this week's report with word that the FCC's doors are open again in Washington, D.C. - at least for the next three weeks -- following the end of the recent partial shutdown of the U.S. government. The agency was among those to resume operations on Monday the 28th of January.

During that time the processing of amateur radio license exams had been stalled. The FCC had cautioned Volunteer Examiners at the time of the shutdown that it would need time to get its systems running properly again, including its Universal Licensing System before processing could resume.

A press release from the agency also noted that any filings that were due between January 3 and January 7 were still due on Wednesday the 30th of January but any filings that were due between January 8 and February 7 would now have that deadline extended to February 8.

Meanwhile, the FCC also noted on Twitter on Wednesday, January 30th that the commission was back to having a full bench following the swearing-in of its newest commissioner Geoffrey Starks. The FCC's five commissioners then got down to the business of their first Open Meeting of the year.

Starks, who had been assistant bureau chief in the FCC's Enforcement Bureau, immediately launched a Twitter account where he posted his first video about his new job and shared his goals and hopes.

Indiana amateurs take new licensees to next step.

After a new ham gets their first license the big question looms, "Okay, I've got my license -- now what?" A western Indiana amateur radio club is addressing that question and a class on February 2nd may end up teaching all ham clubs a good lesson, as we hear from Jack Parker W8ISH.

As winter snow and freezing winds grip the mid-west, hams in western Indiana are heading to Terre Haute for Ham Camp next week. This will be the fourth winter camp where members of the Wabash Valley Amateur Radio Association will spend the Saturday exposing new hams to many of the facets that make our hobby fun.

According to Jerry Cockrell, W9GWC, the one-day workshop provides the newly-licensed operator practical instruction in basic electronic measurements, setting up an amateur radio station, building and erecting antennas, making

contacts and other aspects of amateur radio. Each student will make at least one VHF and one HF contact during the workshop. Following their successful Technician license classes the Wabash Valley hams saw a need to provide additional "hands on" experience to the new hams so they become more involved with the hobby and their club.

Cockrell says the one day workshop comes with lunch and the class is limited to the first fifteen participants. Pre-registration is required. There will be plenty of elmers on hand with over 200 years of amateur radio experience. The class will cover what equipment to purchase, what modes are possible and for the over-achievers, what contests and special events they can participate in after upgrading to the General class license. This seminar is geared to get the new hams beyond the "mic fright" phase and onto the fast lane of Amateur Radio DX.

Hams' library gift is one for the books.

The latest addition to the collection inside the Briggs Lawrence County Public Library in Ironton, Ohio is a limited edition, six-volume box-set, hot off the press. The title: "The 2019 American Radio Relay League Handbook." This was a gift given recently to the library by the Southern Ohio Amateur Radio Association and presented by club president James Rowe N8TVO and Eddie Jenkins N8URU. The club made the donation during a program members gave at the library last month providing a general overview

of ham radio's capabilities - from local communications to contact with outer space. James and Eddie were joined in the program by Mike Love WB8YKS and Ken Massie WN8F. The library's director Joe Jenkins said that not only was he very pleased with these newest library books, he was eager to have the club members return in the summer when youngsters in the summer reading program are hoping to contact one of the astronauts on board the International Space Station using - what else? - amateur radio.

CENTRAL MICHIGAN AMATEUR RADIO CLUB
BOARD OF DIRECTORS
MEETING MINUTES

November 3, 2018

Attendance

Current Board Members Present:	Clyde Tompkins (K8CPT), Chris Ranes (NS8Q), Tom Rocheleau (WA8WPI), Dan Beuchert (WX8MOJ), Gregg Mulder (WB8LZG), Don McLain (KB8RAD)
Current Board Members Absent:	Michael Boensch (W8MKB)
Guests:	Bill Thompson (KE8KFA)

Call to Order

President Clyde Tompkins (K8CPT) called the meeting to order at 6:45 pm.

MSUARC Antenna Donation

- A large VHF yagi antenna was donated to their club and they would like to give it to our club if we want it. It has somewhere between 12 and 15 elements.

General License Class

- Numbers have dropped a little bit from the beginning, but those who are attending the class say they are learning quite a bit and are looking forward to their upcoming testing session.

ARRL Club Affiliation Updates

- Chris updated the club information, including the club officers on the ARRL website. The ARRL is requesting all clubs update information to remain an ARRL Affiliated Club. Gregg will make contact to see if he can acquire it for us.

Bylaw Revisions

- Article 2, Section 2.1:
 - The Central Michigan Amateur Radio Club (hereafter The Corporation) is an organization formed exclusively for educational purposes within the meaning of Section 501 (c)(~~7~~) **(3)** of the Internal Revenue Code of 1954.
- Article 3, Section 3.3:
 - Membership in The Corporation shall be renewed annually by payment of the applicable dues. ***The annual dues rate shall be set by the Board and not modified for a given membership year.***
- Article 5, Section 5.6:
 - The Board of Directors shall have the power to fill vacancies in its own membership ***if such vacancy is reasons other than a recall vote by the Membership as set forth in 5.11.*** Such new Board members shall hold office for the rest of the respective filed term.

- Other miscellaneous grammatical changes.

MOTION: *Don moved that we bring up the current list of changes to the by-laws at the November meeting, seconded by Gregg, approved, and the motion carried.*

Repairing the Current Antenna

- The Board has elected now to proceed with any repair work at this time. The plan is to use the antenna as is until next spring when we will rent the man-lift and proceed with swapping out the old antenna with the new antenna that has been ordered.

Paperwork to file with the IRS

- Dan will look into and file the paperwork with the IRS which allows us to continue holding our monthly 50/50 raffle.

Annual Club Open House

- The Board will look at holding an open house to coincide with the Michigan QSO Party on in April 2019. The open house will be publicized, inviting the public to come to see what ham radio is all about.

Adjournment

MOTION: *With no further business to discuss, Gregg moved that we adjourn the meeting, seconded by Tom, approved, and the motion carried.*

The meeting was adjourned at 9:15 pm.

Respectfully submitted,



Chris Ranes (NS8Q)
CMARC Secretary

CENTRAL MICHIGAN AMATEUR RADIO CLUB
MEETING MINUTES
November 9, 2018

Attendance

Board Members Present: Michael Boensch (W8MKB), Dan Beuchert (WX8MOJ), Chris Ranes (NS8Q), Tom Rocheleau (WA8WPI), Gregg Mulder (WB8LZG), Don McLain (KB8RAD)

Board Members Absent: Clyde Tompkins (K8CPT)

General Members: 26 Members

Visitors: 4 Visitors

Call to Order

- Michael (W8MKB) called the meeting to order at 7:05 pm.
- Tom (WA8WPI) held the Flag for the Pledge of Allegiance.

Sign-in Sheets

- Please make sure to sign the sign-in sheets circulating around the room at each meeting. There is one sheet for members and another for visitors. We use these sheets to keep track of how many people visit us each month.

Cards and Flowers Report

- Joe DeNomme (N8VYS) passed away on October 10th. A card was sent and a \$40 donation made to the Disaster Relief Fund of the American Red Cross.
- The brother of Pastor Dan Cameron (KD8QPF) passed away. A card was sent.
- Robert King, the brother-in-law of Don McLain (KB8RAD), passed away on October 19. A \$40 donation was made to Sparrow Foundation Hospice Services.
- Lewana Barker, the wife of Ben Barker (WD8OVL), passed away on October 20. A card was sent and flower was sent to her "Celebration of Life" event.

New Members / Visitors

- Diane Clay, Pam DeNomme (KB8PSF), Brandi DeNomme, Justin Macauley (KC8WGH)

Treasurer's Report

MOTION: *John Winn (KE8CYC) moved to accept the Treasurer's Report as published on the CMARC website, seconded by Dan Dembinski (KD8YDE), approved, and the motion carried.*

Secretary's Report

MOTION: *Don McLain (KB8RAD) moved to accept the Secretary's Report as published on the CMARC website, seconded by John Winn (KE8CYC), approved, and the motion carried.*

New Licenses and Upgrades: None

Interesting or other Contacts

- Gregg Mulder (WB8LZG) - 40m has been great in October. On October 17th he worked Mexico, Curacao, Italy, and the Maderia Islands with around 250 watts. On October 24th, just before the DX contest, he worked French St. Martin, Guatemala, Ducie Island DXpedition and Suriname, all with 5 watts QRP. Last weekend, worked CW Sweepstakes for 1-1/2 hours and worked 50 QSOs and 35 Sections, all with 5 watts QRP.
- Steve Lyon (W8RQS) - received several images from the International Space Station.
- Justin (KC8WGH) - had his first QSO over APRS.

Old Business

- General Classes are currently being held every Saturday, except for the week of Thanksgiving, and running through December 1st. A special VE session will be held the last day of class for those who are ready to test. The test will be held at 1 pm.
- 501(c)3:
 - We are in the process of updating the State of Michigan that we are now a 501(c)3 organization.
 - We are proposing some changes to our current bylaws to reflect our new status.
 - Dan will meet with Chris to go over the rules for accepting donations and sending out yearly tax receipts.
- APRS:
 - The computer running the APRS station continued to run out of memory, which locked the computer up and lost connection to the internet.
 - Chris configured it to reboot every day to clear out the memory and keep it running. So far we have not had any additional problems.

New Business

- Club Triband Antenna
 - The tri-band antenna has been ordered and we are waiting for it to ship. The total cost was \$805.21.
- Club Directory
 - Sheets are being circulated with spots for you to fill out the information you would like in the club directory. There is no pressure to be in the directory if you wish to exclude yourself.
- Changes to the By-laws
 - Article 2, Section 2.1:
 - The Central Michigan Amateur Radio Club (hereafter The Corporation) is an organization formed exclusively for educational purposes within the meaning of Section 501 (c)(7) **(3)** of the Internal Revenue Code of 1954.

- Article 3, Section 3.3:
 - Membership in The Corporation shall be renewed annually by payment of the applicable dues. ***The annual dues rate shall be set by the Board and not modified for a given membership year.***
- Article 5, Section 5.6:
 - The Board of Directors shall have the power to fill vacancies in its own membership ***if such vacancy is reasons other than a recall vote by the Membership as set forth in 5.11.*** Such new Board members shall hold office for the rest of the respective filed term.
- Other miscellaneous grammatical changes.
- Nominations
 - Those members whose offices are expiring this year are Clyde Tompkins, Chris Ranes, Tom Rocheleau, and Don McLain (Under 22 Director)
 - Nominees are as follows:
 - Carl Canfield (K8YHH)
 - Dave Vick (W8ZZX)
 - Don McLain (KB8RAD) - Under 22 Director
 - Gordy Smith (KE8JKS)
 - John Tyree (W8JTT)
 - Shannon Ranes (WA2NVK)

MOTION: *John (KE8CYC) moved that we close the nominations, seconded by Don (KB8RAD), approved, and the motion carried.*

Adjournment

MOTION: *With no further business to discuss, Don McLain (KB8RAD) moved that we adjourn the meeting, seconded by Dan Dembinski (KD8YDE), approved, and the motion carried.*

The meeting was adjourned and at 8:06 pm.

Respectfully submitted,

Chris Ranes

Chris Ranes (NS8Q)
CMARC Secretary

CENTRAL MICHIGAN AMATEUR RADIO CLUB
BOARD OF DIRECTORS
MEETING MINUTES

December 8, 2018

Attendance

Current Board Members Present:	Clyde Tompkins (K8CPT), Michael Boensch (W8MKB), Chris Ranes (NS8Q), Dan Beuchert (WX8MOJ), Gregg Mulder (WB8LZG), Don McLain (KB8RAD)
Current Board Members Absent:	Tom Rocheleau (WA8WPI)
Guests:	Bill Thompson (KE8KFA)

Call to Order

President Clyde Tompkins (K8CPT) called the meeting to order at 6:40 pm.

Bylaw Revisions

- The bylaw revisions made last month were presented at the last month's meeting. Dan sent them revisions out to the membership via the ListServ and no further changes were needed.

501(c)3 Meeting with the Makerspace Representative

- Dan Beuchert, Michael Boensch, and Randy Williams had a meeting with Brian from the Lansing Makerspace regarding the operation of their organization as a non-profit. The meeting was to be held for the Lansing Civil Defense Repeater Association but the information obtained can be used for CMARC.
- Training is available for our Treasurer to learn how to make sure our finances are in order as we head into the new year as a new non-profit organization. The training is through the Non-Profit Network of Jackson.
- The Board will have to decide how they want to take advantage of our new non-profit status going into the new year.

Extra Mile Award

- The Board decided to revive the "Extra Mile Award", which in the past, was given to members who were recognized for what they do for the club, but who may not be nominated for, or receive the Ziegenbein award.
- Each year, the Board will create a list of three or four people and will be re-evaluated the list each year.
- The award will be given out on a yearly basis, but will not interfere with the Ziegenbein award.

Field Day Reports

- CMARC placed 51st out of 349 log submissions in the "3A" category. Thank you to all of our talented operators who made this happen.

Storage Room

- We need to have all of the Fulton items removed to make room for our own use of the space.

Election Committee

- Gregg Mulder (WB8LZG) volunteered to be on the committee.
- Dan Beuchert (WX8MOJ) also volunteered to handle retrieving the email votes.
- We will find one more person before the next meeting.

End of Year Gift to Kevin Ammerman

- The Board will like to present Kevin with our yearly \$300 check to thank him for allowing us to be here.

Donated Copy Machine from the DeNomme's

- Pam DeNomme donated a copy machine to the club, including several toner cartridges.
- The Board will look at the possibility of moving it out of our storage area, into the main room to be used by our members, as well as offer it to Kevin Ammerman and his employees.

Club QSL Manager

- With the passing of Don DeFeyer (KC8CY), and since the Board previously voted to make Chris (NS8Q) the Trustee for W8PLP, he volunteered to become the Club QSL Manager.
- Chris contacted the administrators at QRZ.com and explained the situation to them and they promptly transferred control of both W8PLP and W8MAA pages to him.
- He plans to begin the process of transitioning the club logs to the ARRL LOTW (Logbook of the World) system. The club laptops will have LOTW logging setup within the N3FJP AC Log program.

MOTION: *Don McLain (KB8RAD) moved that we make Chris Ranes (NS8Q) the Club QSL Manager, seconded by Clyde Tompkins(K8CPT), approved, and the motion carried.*

Adjournment

MOTION: *With no further business to discuss, Don McLain (KB8RAD) moved that we Adjourn the meeting, seconded by Michael Boensch (W8MKB), approved, and the motion carried.*

The meeting was adjourned at 8:00 pm.

Respectfully submitted,



Chris Ranes (NS8Q)
CMARC Secretary

CENTRAL MICHIGAN AMATEUR RADIO CLUB
MEETING MINUTES
December 14, 2018

Attendance

Board Members Present: Michael Boensch (W8MKB), Dan Beuchert (WX8MOJ), Chris Ranes (NS8Q), Tom Rocheleau (WA8WPI), Gregg Mulder (WB8LZG), Don McLain (KB8RAD)

Board Members Absent: Clyde Tompkins (K8CPT)

General Members: 28 Members

Visitors: 6 Visitors

Call to Order

- Michael (W8MKB) called the meeting to order at 7:12 pm.
- Dan (WX8MOJ) held the Flag for the Pledge of Allegiance.

Sign-in Sheets

- Please make sure to sign the sign-in sheets circulating around the room at each meeting. There is one sheet for members and another for visitors. We use these sheets to keep track of how many people visit us each month.

Cards and Flowers Report

- Dr. Edward Liebler (W8NRE), part of the MSU ARC, passed away on November 24th. We sent a card and donated \$40 to the MSU College of Veterinary Medicine.
- Don DeFeyter (KC8CY) passed away Thanksgiving weekend. No services were held. We sent a card to the family.
- Ginny Holcomb, the wife of Mike Holcomb (WX8MH), passed away on November 29th. We sent a card and donated \$40 to Make-a-wish Foundation.
- Gerri Jenks, the wife of Ray Jenks (KD8ZDK), and grandmother to Sam Fitzgerald (N8FPR) passed away on November 28th. Cards were sent and donated \$40 to the South Church of the Nazarene Missions.
- Former CMARC President, Roger Barnhill (AB8RX), and husband of DeAnna Barnhill (KD8BDI) passed away last night, December 13th, in Leesburg, FL. No further details are available at this time.

New Members / Visitors

- Nora, granddaughter of Gordy Smith KE8JKS
- Karen, wife of Peter Miller AC8YF
- Felicia, friend of Michael Bofysil KC8ZLQ
- Ann, wife of Bob Berger K8RDN
- Diane, wife of Tim Clay KC8THC
- Charla-Fay, wife of Gordy Smith KE8JKS
- Andrew, son of Brian Wellwood KD8ONC

Treasurer's Report

MOTION: *Dan Dembinski (KD8YDE) moved to accept the Treasurer's Report as published on the CMARC website, seconded by Don McLain (KB8RAD), approved, and the motion carried.*

Secretary's Report

MOTION: *John Doornhaag (KD8NNQ) moved to accept the Secretary's Report as published on the CMARC website, seconded by Marc Lovegrove (KE8GQX), approved, and the motion carried.*

New Licenses and Upgrades:

- Tim Clay KC8THC upgraded to General

Interesting or other Contacts

- Bob Crawford - Japan, Australia, New Zealand, and Canary Islands
- Tim Clay - Venezuela
- Gregg Mulder - Curacao with 1 watt

Old Business

- General Class:
 - The class is officially finished, but two more classes are planned for those who requested more class time.
- 501(c)3:
 - Dan and Michael, and Randy Williams from LCDRA met with Lansing Makerspace representative, Brian, to get his thoughts on how he has run his organization. Specifically, they discussed paperwork, receipts, etc. The Board will discuss how our organization and LCDRA will work together with CMARC as a new non-profit organization.

New Business

- Club Triband Antenna
 - The antenna arrived this week and is being stored until the weather breaks next spring.
- Club Directory
 - Sheets are being circulated with spots for you to fill out the information you would like in the club directory. There is no pressure to be in the directory if you wish to exclude yourself.
- Changes to the By-laws as presented at the November meeting
 - Article 2, Section 2.1:
 - The Central Michigan Amateur Radio Club (hereafter The Corporation) is an organization formed exclusively for educational purposes within the meaning of Section 501 (c)~~(7)~~ **(3)** of the Internal Revenue Code of 1954.

- Article 3, Section 3.3:
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- Other miscellaneous grammatical changes.

MOTION: *Dan Beuchert (WX8MOJ) moved to accept the proposed changes to the bylaws as distributed by email and posted on Facebook, seconded by John Winn (KE8CYC), approved, and the motion carried.*

MOTION: *Bob Crawford (K8ZAP) moved to reopen discussion on Section 6.1 of the bylaws at the January Board meeting, with clarifications to be presented at the January membership meeting, seconded by John Winn (KE8CYC), approved, and the motion carried.*

Introduction of Nominees and Elections

- Each Board nominee stood up and introduced themselves.
- The counting committee was also introduced
- Elections were held and the winners are:
 - Shannon Ranes WA2NVK, Gordy Smith KE8JKS, Carl Canfield K8YHH, Don McLain KB8RAD

Adjournment

MOTION: *With no further business to discuss, Brian Wellwood (KD8ONC) moved that we adjourn the meeting, seconded by Carl Canfield (K8YHH), approved, and the motion carried.*

The meeting was adjourned and at 7:57 pm.

Respectfully submitted,



Chris Ranes (NS8Q)
CMARC Secretary

CLASSIFIEDS

Gregg Mulder / WB8LZG
(517) 646-6257 after 4pm

\$80

**LDG AT-11 Auto Antenna
Tuner**

*Covers HF 160m-10m and
handles 150 watts.*

\$40

Turner 251 Microphone

Oldie with the "fin" on top.

\$30

**4 State QRP Digital Wattmeter
and Dummy Load**

*Comes inside a homemade
wood enclosure.*

\$35

MFJ 422 Keyer

*Keyer is made to sit on
top of a Bencher key*

\$100

Kent Single Lever Paddle

Key is in nice condition!

Ed Hude / WA8QJE
Cell: (517) 420-7550

\$500

Kenwood TS-850S.

*Rig is in excellant condition with
built in antenna tuner, matching
AC power supply, external
speaker, MC-50 Microphone,
and operators manual.*

\$300

Icom ID-880H

*Covers 2m/440 - FM/D-
Star. It is brand new with
programming software and
cable. Excellant condition!*

Ed Oxe / W8EO
eaoyer@gmail.com

\$90 or Best Offer
Alinco DJ-V57T HT

*Covers 2 meters and 70 cm. Radio
includes a speaker mic and car
battery charger. It runs 5 watts
max and has 200 memories.*

Gregg Wesley / KD8PA
(517) 614-6573

Aluminum Tubing, Masts,
and other odds and ends
for antenna building.

CLASSIFIEDS

From the estate of Don DeFeyter (KC8CY)

Kenwood TS-820s HF xcvr with SP820 speaker and mic	\$ 250
Kenwood R820 Receiver + SP820 Speaker	\$ 150
Kenwood TL922a HF linear amp	\$ 600
Kenwood TM-251 2m mobile xcvr	\$ 50
Kenwood TM-271 2m mobile xcvr	\$ 75
Kenwood HC10 clock	\$ 50
Astron 20m power supply	\$ 75
Pakratt PK232 paket controller	\$ 25
Rigblaster data interface	\$ 50
MFJ Grandmaster keyer	\$ 25
Speed-X key	\$ 40

The following items are **BROKEN**: Make an offer

Yaesu FT1000D HF xcvr & SP5 speaker (Receive only, no transmit)	\$ 100 ??
Kenwood TS700s 2m all-mode mobile (no display)	\$ 20 ??

Many books, and Ham related software items. Need something, just ask.

There is also a 30' Rohn tower and Hy Gain rotator that need to be taken down. Atop of the tower is an HF Yagi, 2m Yagi, 2m log periodic, & 2m vertical. All for sale. Hy Gain "Hy Tower" all band HF vertical antenna.

The antennas and towers are in good condx and need to be taken down safely. (an antenna party in the spring?) I will entertain any reasonable offer on the antennas and towers.

These items are all for sale but many have not been tested. They will be tested upon sale to satisfaction of the buyer.

Please call Gregg Mulder WB8LZG at 517-646-6257 after 5pm.

Greater Lansing Nets

The “**Central Michigan Slow Scan TV Net**” meets every Sunday evening from 7:00- 8:30pm on the 145.39 repeater (PL 100 Hz), with Net Coordinator Carl Canfield/K8YHH. EVERYONE is welcome to join in and have fun learning and using this interesting and useful mode of communication. Other digital modes will be explored from time to time. For more information, call Carl at: (517) 755 6627.

The “**Ladies Tea Time Net**” meets every Tuesday night at 7:00 pm on the 145.39 repeater (PL 100.0), with Net Coordinator Janine Lieber/KK6GYM.

The “**Quarter Century Wireless Association Net**” also meets every Tuesday night but at 8pm and on the 146.70 repeater (PL 107.2 Hz), with Net Coordinator Don Tillitson/WB8NUS.

The “**Mid-Michigan Information & Trader’s Net**” meets every Wednesday evening at 7:00pm on the 145.39 repeater (PL 100 Hz), with Net Coordinator Clyde Tompkins/K8CPT.

The “**MSUARC Friends and Info Net**” meets every Thursday evening at 7:00pm on the 145.39 repeater (PL 100 Hz), with Net Coordinator Gregg Mulder/WB8LZG. The first half of the net is time for chatting, while the second half is for Morse Code practice. If you wanted to learn Morse Code, but didn’t know how to go about doing it, then please join us. The speeds are kept down to a minimum, to make it easier to learn.

ALL are welcome on these nets, so be sure to check in to show your support. And as with all Nets, 3rd party check-ins are welcome, but must have Control Operator present at check-in time.

CMARC Officers and Appointees

President

Michael Boensch, W8MKB

Vice President

Gordy Smith, KE8JKS

Treasurer

Dan Beuchert, WX8MOJ
wx8moj@arrrl.net

Secretary

Shannon Ranes, WA2NVK
wa2nvk@gmail.com

Under 22 Director

Don McLain, KB8RAD
(517) 930-7707

Director

Carl Canfield, K8YHH

Director

Gregg Mulder, WB8LZG

Cards & Flowers

Jane Hosford, KC8FSK
(517) 515-7610

Club Contact

Don McLain, KB8RAD
(517) 930-7707

Club Historian

William Cote, WD8NYW

Antenna Projects Chairman

Gregg Mulder, WB8LZG

Lansing ARPSC Liaison

Jim Hannahs, KC8QWH

Scope Editor

QSL/Awards Manager

Chris Ranes, NS8Q
kc8caj@gmail.com
cmarcscope@gmail.com

Photographer

Kenneth Hazlett, N8BVV
(517) 348-5513

**CMARC Calls:
W8MAA & W8PLP**

LCDRA Officers and Appointees

President

John Imeson, N8JI
(517) 449-1517

Vice President

Don Tillitson, WB8NUS
(517) 321-2004

Secretary

Ron Harger, WD8BCS
wd8bcs@arrrl.net

Treasurer

Jeff Oberg, KB8SXX

Director

Jan Bradfield, KC8BFB
(517) 202-1779

Director

Don McLain, KB8RAD
(517) 930-7707

Director / Membership Chair

Michael Boensch, W8MKB

Repeater Trustee

Dennis Boone, KB8ZQZ

**LCDRA Call:
W8BCI**

The Scope is a bi-monthly joint publication of The Central Michigan Amateur Radio Club and the Lansing Civil Defense Repeater Association. Please send all articles, classified ads, or other information to the editor, Chris Ranes, NS8Q, at cmarcscope@gmail.com.

The deadline for each issue is midnight on the 20th of the preceding month.

59th Annual
Michigan Crossroads Hamfest & Radio Swap

Saturday, March 16, 2019

Wings Event Center

3600 Vanrick Drive, Kalamazoo Township, MI 49001

Sponsored by the Southern Michigan Amateur Radio Society

Vendor set-up: Friday, March 15th, 6:00 PM - 9:00 PM Saturday, March 16th, 6:00 AM - 8:00 AM



General Admission: Saturday, March 16th, 8:00 AM - 12:00 PM

\$7.00 admission fee at the door

Vendor table or 8' space rental \$10.00

2000 Free PAVED parking spaces

Door prizes (Grand prize: Ten-Tec 586HF Transceiver)

Amateur Radio Examinations (10:00 AM)

Talk-in: 147.000 MHz (+600 kHz offset) KARC Repeater PL 94.8



For more information, visit our website <http://www.w8df.com/hamfest>,
call (269) 815-8007 or email crossroadshamfest@w8df.com.

Registration Form

Name _____

Company _____

Call sign _____ Phone (_____) _____ - _____

Email address _____

Mailing address _____

City _____ State _____ Zip _____

Check boxes for: Electrical hookup ☐

Wall table(s) preferred ☐

_____ Table(s) @ \$10.00 / each _____

_____ Electrical hookup \$10.00 _____
(Table NOT included)

_____ Ticket(s) @ \$7.00 / each _____

Total _____

To order, please send a completed copy of
this form and a check or money order
payable to SMARS to:

SMARS
P.O. Box 934
Battle Creek, MI 49016

NOTE: NO RESERVATION WITHOUT THIS FORM AND PAYMENT.

There is NO SMOKING in the building. Adult material and alcohol are prohibited. Please visit
http://www.w8df.com/hamfest_rules.pdf for the complete list of hamfest rules.

Reservations by mail accepted until March 1, 2019, please call or email after March 1st.



Central Michigan Amateur Radio Club

W8PLP/W8MAA

Membership Form



For new CMARC applicants: Please complete all sections.

For existing CMARC members: Please include your Name and Call Sign along with only the information you would like changed.

Mail completed form to Membership Chairman (see address below) or take to Club meeting for processing. Please include payment if applicable. (Checks or Money Orders should be made payable to 'CMARC').

Daniel Beuchert | PO Box 27275 | Lansing, MI 48909-7275

Membership Type		<input type="checkbox"/> New	<input type="checkbox"/> Renewal
Full:	<input type="checkbox"/> Annual Dues: \$20.00 <i>Includes voting rights and an annual subscription to The Scope.</i>		
Associate:	<input type="checkbox"/> Annual Dues: \$5.00 <i>Includes an annual subscription to The Scope but NO voting rights.</i>		
New Licensee:	<input type="checkbox"/> Annual Dues: 1st Year Free		
Under 18:	<input type="checkbox"/> Annual Dues: Free		

Contact Information	
First Name: _____	Last Name: _____
Call Sign: _____	License Class: _____ Phone #: _____
Address: _____	Apt/Unit: _____
City: _____	State: _____ Zip Code: _____
Birthday: _____	Anniversary: _____
Email: _____	Sign up for the List Serv: <input type="checkbox"/> Yes <input type="checkbox"/> No
<small>Note: Email is used by club officers to communicate club business and may appear in the club directory for use by club members. CMARC does not share/sell contact information to other parties.</small>	

Club Communications	
Newsletter Preference (select only one option)	<input type="checkbox"/> I will download from the web site.
	<input type="checkbox"/> Please mail to my address (Note: Direct mailing increases postage costs.)
ARRL Affiliation	<input type="checkbox"/> I am an ARRL member



Lansing Civil Defense Repeater Association

Membership Form

For new LCDRA applicants: Please complete all sections.

For existing LCDRA members: Please include your Name and Call Sign along with only the information you would like changed.

LCDRA oversees the operation and maintenance of all Lansing Area repeaters. Use of the repeaters does NOT require LCDRA or CMARC membership, but your support is welcome and appreciated.

Mail completed form to Membership Chairman (see address below) or take to a meeting for processing. Please include payment if applicable. (Checks or Money Orders should be made payable to 'LCDRA').

Michael Boensch | 1897 Sunnymede Ln | Lansing, MI 48906-1356

**If you would like a membership card mailed to you,
please include an SASE with your payment. Thank you.**

Membership Type		<input type="checkbox"/> New	<input type="checkbox"/> Renewal
Full:	<input type="checkbox"/> Annual Dues: \$15.00 <i>Includes voting rights and an annual subscription to The SCOPE.</i>		
Family Mbrs:	<input type="checkbox"/> Annual Dues: \$7.50 ea. No. of Family Members: _____		
ARRL Affiliation	<input type="checkbox"/> I am an ARRL member Membership Card <input type="checkbox"/> Yes (Please see above)		

Contact Information	
First Name: _____	Last Name: _____
Call Sign: _____	License Class: _____ Phone #: _____
Address: _____	Apt/Unit: _____
City: _____	State: _____ Zip Code: _____
Birthday: _____	Anniversary: _____
Email: _____	
<i>Note: Email is used by club officers to communicate club business and may appear in the club directory for use by club members. <u>LCDRA does not share/sell contact information to other parties.</u></i>	

Central Michigan Amateur Radio
P.O. Box 54
Mason, MI 48854-0054

STAMP

To:

Activities Calendar



Date	Time	Event	Place
2/18/2019	7:00 PM	ARPSC Meeting	Lansing Fire Station #48
3/2/2019	6:30 PM	CMARC Board Meeting	The Club Station in Mason
3/8/2019	7:00 PM	CMARC Meeting	The Club Station in Mason
3/9/2019	11:00 AM	VE Session	Lansing Fire Station #44
4/4/2019	7:00 PM	VE Session	Lansing Fire Station #44
4/6/2019	6:30 PM	CMARC Board Meeting	The Club Station in Mason
4/12/2019	7:00 PM	CMARC Meeting	The Club Station in Mason