



THE SCOPE



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

VOLUME 20, ISSUE 6

SEPTEMBER / OCTOBER

CENTRALMIARC.COM

Call for Nominations:

2021 CMARC Board of Directors

**Nominations will close at the
November 13, 2020 CMARC meeting
for four Director positions.**

**Please email the CMARC Board to
nominate yourself or someone
else for our December election.**

board@centralmiarc.com

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Who says CW isn't scary?

COURTESY OF KK7DEB & MULNOMAH COUNTY ARE.



CMARC OFFICERS

PRESIDENT: Gordy Smith / KE8JKS
VICE PRESIDENT: Dan Dembinski / KD8YDE
TREASURER: Shannon Ranes / WA2NVK
SECRETARY: Dave Vick / W8ZZX
UNDER 22 DIRECTOR: Don McLain / KB8RAD
DIRECTOR: Kelly Fitzgerald / N9PC
DIRECTOR: Gregg Mulder / WB8LZG

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MEMBERSHIP CHAIR:

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CARDS & FLOWERS: Jane Hosford / KC8FSK

CLUB CONTACT: Don McLain / KB8RAD

CLUB HISTORIAN: William Cote / WD8NYW

ANTENNA PROJECTS CHAIRMAN:

Gregg Mulder / WB8LZG

LANSING ARPSC LIAISON:

Jim Hannahs / KC8QWH

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CLUB STATION MANAGER:

Chris Ranes / NS8Q

CLUB PHOTOGRAPHER:

Kenneth Hazlett / N8BVV

W8PLP TRUSTEE: Chris Ranes / NS8Q

W8MAA TRUSTEE: Dan Harger / WD8BCS



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SECRETARY: Ron Harger / WD8BCS

TREASURER, MEMBERSHIP CHAIR:

Michael Boensch / W8MKB

DIRECTOR: John Winn / KE8CYC

DIRECTOR: Don McLain / KB8RAD

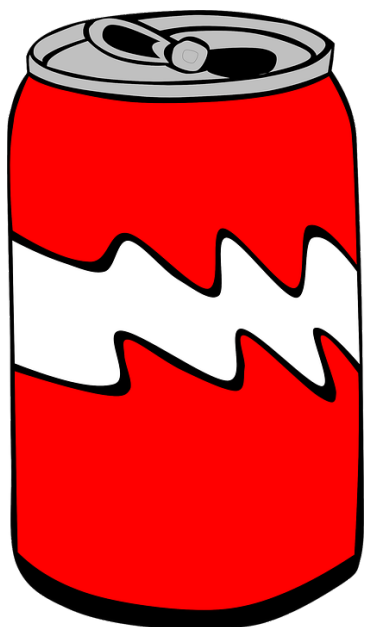
REPEATER TRUSTEE: Dennis Boone / KB8ZQZ

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.

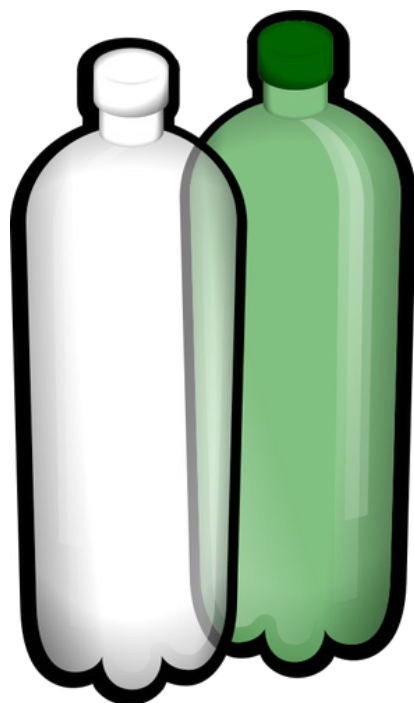
Central Michigan Amateur Radio Club's



CAN & BOTTLE DRIVE

An effort is underway to raise money for CMARC's Building Fund. The Building Fund has been designated by the Board to be used for the purpose of moving our club house / club station.

If you would like to participate, please return the bottles and cans you have been accumulating at home. Then consider mailing your check or money order to our Treasurer, and made out to CMARC.



Shannon Ranes, WA2NVK
1728 Cooper Ave
Lansing, MI 48910

Treasurer's Report 2020

Shannon Ranes / WA2NVK- CMARC Treasurer

Bank Balances for August	
Beginning Balance	\$3,636.69
Total Monthly Income	\$0.00
Total Monthly Expenditures	(\$163.22)
Total Business Checking	\$3,473.47
Petty Cash	\$1.00
Outstanding Checks	(\$80.00)
Sub Total + Petty Cash	\$3,394.47
Primary Share Accounts	
Humphrey's Fund	\$384.35
Club Station	\$19.09
Building Fund	\$100.00
Field Day	\$178.86
Total Net Worth	\$3,976.77
Youth Fund Balance*	\$254.80
* Separate from CMARC Funds	

August 2020 Summary:

- ~ We deposited \$100 into the Building Fund.
- ~ A \$40 memorial check (written in January) has not been cashed.
- ~ A second \$40 memorial check (written in May) has not been cashed.

Treasurer's Report 2020

Shannon Ranes / WA2NVK- CMARC Treasurer

Bank Balances for September	
Beginning Balance	\$3,473.47
Total Monthly Income	\$20.00
Total Monthly Expenditures	(\$0.00)
Total Business Checking	\$3,493.47
Petty Cash	\$1.00
Outstanding Checks	(\$80.00)
Sub Total + Petty Cash	\$3,414.47
Primary Share Accounts	
Humphrey's Fund	\$384.37
Building Fund (Club Station)	\$19.09
Building Fund	\$100.00
Field Day	\$178.87
Total Net Worth	\$3,996.80
Youth Fund Balance*	\$254.781
* Separate from CMARC Funds	

September 2020 Summary:

- ~ We deposited \$20 in dues.
- ~ A \$40 memorial check (written in January) has not been cashed.
- ~ A second \$40 memorial check (written in May) has not been cashed.

Experiencing Field Day in Michigan's Upper Peninsula

By Clint Hannahs, KC8EHR

Overall, I had a GREAT time !!!! It's been years since I've participated in Field Day, and I caught the excitement again.

My wife and I have a secluded cabin in the U.P. and it's surrounded by the Hiawatha National Forest, and 100% off-grid. So I thought it would be a GREAT place to operate for Field Day. I used only a 750 c.c. amp deep-cycle marine battery for a power source. My rig was an Alinco DX-70TH with a LDG AT-11MP Autotuner, and my antennas are a Titan-DX Vertical, and a G5RV dipole, and an antenna switch.



A view of the property, with my tent, and the TitanDX Vertical.

For logging, I used my iPad, and an app called "Ham 73 Log". It was very user-friendly and is, (I feel) a great app for logging and contesting....not just for Field Day.

For shelter, I set-up a tent to operate outside, so not to disturb the family while they were inside the cabin. Local QSO's were made on an Icom 2720H, with a mag-mount on the grill.

I was not able to be on the air as long as I wished for, and it cut into my opportunity to operate CW, but I had a BLAST!!!! ■



A view from inside the operating tent.

Vibroplex Challenge

By: Gregg Mulder, WB8LZG

As many of you know, for many years I have refurbished keys and paddles as a side hobby for my enjoyment in the fine art of Morse code. Many Vibroplex's have passed through the shack restoration process and operate as new when I finish.

What most of you CMARC members may not know is, for years now I have given away Vibroplex paddles and bugs to worthy recipients. 9 of them so far in a 20 year period. "Given away, no fooling" you say. Wow! That's a bunch of Vibroplexes." How do I get one" You ask?

"When will I be worthy"?

Well here's the scoop.

From now until Field Day 2021 you must convince me that you're a "worthy recipient". No you don't have to impress me with 20WPM speed. Just show that you are learning and using Morse code "on the air". With a little practice you can master CW in as little as 3 or 4 months. Show me that you are learning and enjoying the art of CW by next Field Day 2021, and a beautiful Vibroplex Vibrokeyer can be yours! **FREE.**

I CHALLENGE YOU ALL !

Time to comment on the proposed new fees

By Dan Romanchik, KB6NU

From our division director, Dale, WA8EFK....

The fees Notice of Proposed Rulemaking was published in this morning's Federal Register. The deadline for comments is November 16, and the Reply comment deadline is November 30.

With this in mind, I am extending the following suggestions you might consider using in writing to the FCC in response to the NPRM. Our thanks to Dave Siddall K3ZJ, ARRL Counsel, for these guidelines. Be sure to carefully review the paragraphs; "Some Suggestions" as the information therein will assist with much of the applicable background.

This subject is critical, the timing is critical. I urge you to contact the FCC. Address and related information is contained in the article referenced in the Federal Register. Please use your own words to express your objections to the proposed fees.

(Good) Arguments Against FCC Fees for Radio Amateurs

Amateurs contribute to the public good. In many areas they provide an emergency communications backbone capability at no taxpayer cost. Consistently we have witnessed storms and natural disasters completely wipe out internet, cellular, and other means of communication. Radio amateurs often fill that void on an unmatched, flexible basis when needed. One recent example is the California wildfires.

Unlike operators in other FCC licensed services, Amateur Radio operators by law – domestic and international — must eschew using their license for any pecuniary interest. Amateurs are prohibited from earning or charging any money for any communications activity. The expenses for their equipment and activities come out of their own pockets, with no opportunity for reimbursement or payment of any kind.

The United States is experiencing a severe lack of RF engineers and expertise at the very time it is needed by the burgeoning wireless industries. Amateur radio is helping to meet the deficit, but much more is needed and youngsters (High School and College-aged) are least able to afford licensing fees. RF knowledge and related digital expertise is needed to maintain U.S. leadership in wireless industries. At a minimum, young people (below the age of 26) should be exempt from the proposed license fees.

Amateur radio is self-regulating. (a) Amateur examinations are written and administered by radio amateur volunteers. (b) Examination results and paperwork most often are submitted electronically to the FCC. Electronic submission could be required if there would be a cost savings to the Commission. (c) Amateur radio educational classes are conducted by volunteers who by-and-large do not charge fees or tuition for teaching. (d) The amateur service, in cooperation with the FCC's Enforcement Bureau, has a volunteer corps that monitors the amateur airwaves and has programs that try to prevent their misuse before FCC involvement might be needed. The amateurs also observe non-amateur signals both within amateur spectrum and outside it, and report unusual or suspicious signals.

Amateur radio continues to be a source of significant technological innovation that should be encouraged, not discouraged.

Some Suggestions

We do not recommend arguing that the \$50. fee every 10 years, which amounts to \$5.00 a year, will "kill" amateur radio, even though as proposed this is for each covered application, which includes upgrade applications. Tech-General-Extra could be \$150. If exams taken at different sessions, a substantial amount. But it "rings" the wrong way to say the whole service turns on \$5/year for each licensee. If that's all it would take

See NEW FEES, Page 7

The Commission argues that the charges are required by the statute. The word used is “shall”, which is mandatory, not optional. But the statute does not set the amount, nor does it prohibit reasonable exceptions – evidenced by the Commission’s proposal to exempt from fees administrative update applications based on policy grounds.

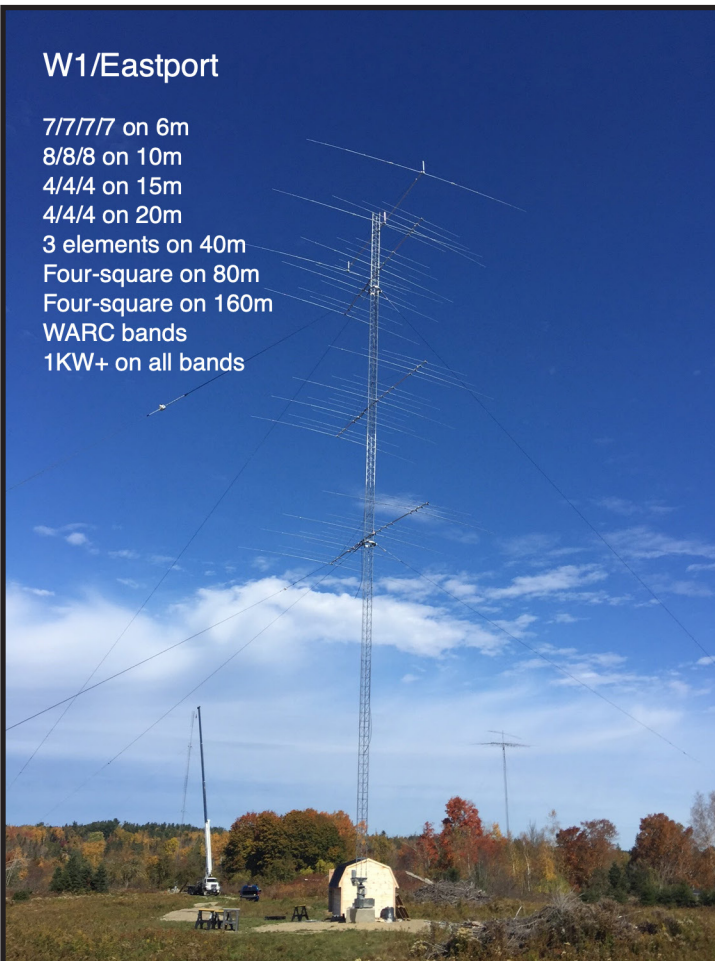
This is not “aimed at amateur radio to kill it.” There is a long history and precedent on charging fees for the licensing service involved, just as there is for passports, green cards, drivers’ licenses (issued by states), etc. Better to make pertinent arguments on why the fees would impair the public benefits of the amateur radio service than argue that the whole service might die as a result of a fee that, in fact, is less than the fee many of us paid in the 1960’s and 1970’s.

For background: this proceeding is being handled by staff unfamiliar with amateur radio. It is being handled

in the FCC’s Office of Managing Director (OMD), not in the Wireless Telecommunications Bureau where the amateur-specific Part 97 matters are handled. The focus of OMD is accounting – budgets and the like for the entire Commission. The fee proposals cover every FCC license and service across the board and the consideration was directed by Congress. It is recommended keeping “ham jargon” out of comments, it won’t be understood by the intended recipients. ■

Thank you.

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



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Made my first satellite contact!

By Dan Romanchik, KB6NU

I've been threatening to get on the satellites for years now. It's just been one of those things that never percolated up to the top of my list. I finally bit the bullet, though, and actually made my first satellite contact Tuesday!

Several things finally motivated me to do this. One, I've been feeling like I've been in a rut. Not just with ham radio, but with life in general. I'm sure that I'm not the only one feeling this way. I felt like I needed to do something different to shake things up a bit.

Two, among my followers, and those who I follow on Twitter, there are many satellite operators, including KI4ASK, KM4LAO, 2M0SQL, KX9X, and many others. Hearing about their exploits certainly gave me a push in the right direction.

This recently-installed ham gear on the ISS includes a V/U crossband repeater.

Third, was the news about the International Space Station's new crossband repeater. It sounded pretty cool to me to be able to bounce a signal off the ISS. After reading this news, I programmed my HT to the receive frequency, 437.800 MHz, and wouldn't you know it, the ISS was passing nearly overhead at that exact time, and I copied a few call signs on just the HT antenna. I took that as an omen.

Next, I had to decide on what kind of antenna to buy or build. I initially considered building my own antenna. There are lots of web pages and YouTube videos that show you how to build a satellite antenna. One of the many that caught my eye was Satellite Log Periodic Antenna Project Pt. 1.

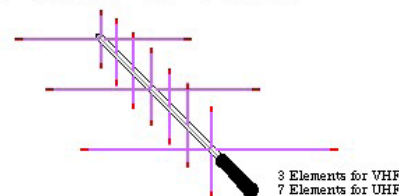
In the end, though, I decided that if I tried building one I might get bogged down in the construction process instead of making contacts. I did some research on commercial antennas, and the choice seemed to be an antenna from Arrow Antennas and the Elk Antennas. Both Martin, M1MRB and Edmund, M0MNG, my co-hosts on the ICQPodcast, have Elk antennas, but when I asked on



This recently-installed ham gear on the ISS includes a V/U crossband repeater.

Arrow II Satellite Antenna

Work a Satellite with an HT



Twitter, the nearly unanimous choice was the Arrow antenna. Jeff, KE9V, settled that dispute when he noted that if I bought an Arrow antenna through AMSAT, that AMSAT would make a few bucks from the sale. So, I got the Arrow. I re-joined AMSAT, too.

It took me a few days to put the antenna together, and then discovered that I didn't have the right adapters to connect it to the radio. After consulting with the Twitter gods, I purchased some from Amazon (BNC-SMA, BNC-reverse SMA). In the meantime, I programmed my radio for the new ISS cross-band repeater. For help in doing so, I found this great blog post. I thought that this might be the most logical one to try first, but I didn't take into account how busy it would be. Since it's the newest satellite station on the air, everyone wants to work it.

Next, I had to figure out when the ISS was going to be overhead. I went back to the Twitter gods for recommendations for a satellite-tracking program, and among them was N2YO.Com. I like N2YO.Com. Using

See SATELLITE, Page 9

it, I was able to determine that the ISS would be passing nearly over head a little after 0030Z that evening.

I thought that tracking the ISS was going to be easy. At 0000Z, the sky was clear, and on a 2m net, I was assured by a local ham, who happens to be a professor emeritus of astronomy at the University of Michigan, that the ISS would be the brightest object in the sky. Unfortunately, by 0030Z, the sky had clouded over, and I never actually saw the satellite. I didn't make a contact, either. I did hear the ISS repeater, but no one heard me.

After that, I refined my approach. I expanded the number of satellites I now have programmed into my radio and upped the transmit power to 5W. The satellites that I have now programmed into my radio include:

ISS
DIWATA-2B (PO-101)
FOX-1B
FOX-1CLIFF
SAUDISAT-1C (SO-50)
FOX-1D

My strategy finally paid off. Just before lunch last Tuesday, I stood on my back porch and had a QSO with ND0C via PO-101! That was quite exciting. I can see where this might get addicting.

This has been a real learning experience, and isn't that what ham radio is all about? I've been thinking about a number of ways to learn more and enhance my satellite operating experience:

Build a satellite antenna. Like I said earlier, I'm a big believer in building, rather than buy antennas, and, if I build a log-periodic, I can compare the performance of the log periodic to the Arrow Yagi antenna.

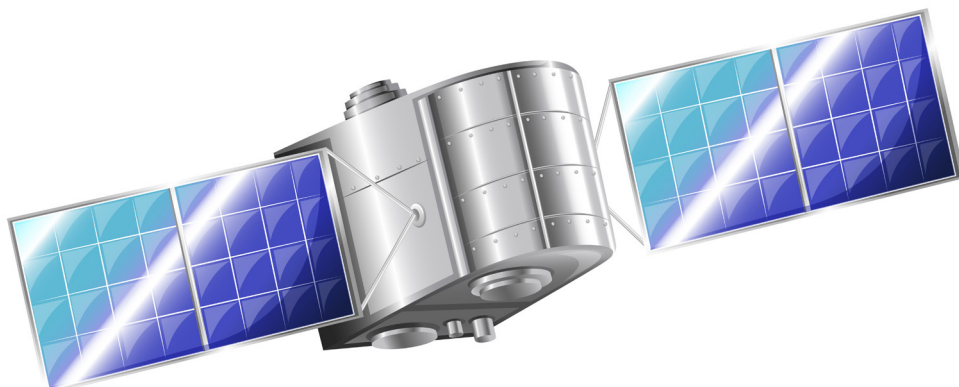
Build a SatNOGS ground station. I've always thought that this project was very cool. The SatNOGS website is a wealth of information on how to do this.

Move to higher ground. I'm kind of in a hollow here, so I don't hear the satellites until they get fairly high in the sky, and eventhen, the pass is fairly short, unless they are going right overhead. There's a park up at the top of the hill, which is just about the highest point in Ann Arbor, and I think trying from there will give me clear shot at many satellites.

Try the linear satellites. One bit of advice I got from Twitter is to try the linear satellites instead of the FM satellites. They're less busy than the FM satellites, and you can work them with SSB and CW. I think that would be pretty cool. I may be wrong, but it looks to me like the IC-705 would be the perfect radio to do this. I think that if I sell my KX-3 and some other stuff I'm really not using, I could afford to buy one.

One thing's for sure. This has gotten me out of my ham radio rut. And, in times like these, that's a good thing. ■

Dan Romanchik, KB6NU, is the author of the KB6NU amateur radio blog (KB6NU.Com), the "No Nonsense" amateur radio license study guides (KB6NU.Com/study-guides/), and often appears on the ICQPodcast (icqpodcast.com).



SATELLITE VECTOR BY VECTEEZY

CENTRAL MICHIGAN AMATEUR RADIO CLUB BOARD OF DIRECTORS MEETING MINUTES

Saturday, August 8, 2020

Attendance

Board Members Present: G. Smith (KE8JKS), D. Dembinski (KD8YDE), S. Ranes (WA2NVK),
D. Vick (W8ZZX), D. McLain (KB8RAD), G. Mulder (WB8LZG),
K. Fitzgerald (K9PC)
Board Members Absent: None
Others present: R. Fitzgerald (N8FZ), T. Rocheleau (WA8WPI), J. Doornhaag (KD8NNQ)

Call to Order

- The meeting began at 6:33pm

August VE Session

- John Doornhaag (KD8NNQ) reported on the August VE Session run by the Ingham County VE Team on the morning of the 8th. We had eleven candidates take a total of 17 tests, awarding five new Tech licenses, four General Class upgrades, and two Extra Class upgrades. One of the Extra Class upgrades went to a CMARC member; Mike Wetzel (W8PDM).

Ladies' Night/Ziegenbein Award Picnic

- Kelly Fitzgerald (K9PC) spoke about getting a head-count for the picnic and getting an email out to the membership to gauge attendance. We also discussed getting the club's Field Day "coffin" box with our tent canopies, ice chests & drink coolers, and tables from the clubhouse out to Dan's property. John Doornhaag (KD8NNQ) has a trailer to haul the gear. It was agreed that John Doornhaag (KD8NNQ), Dave Vick (W8ZZX), and Gordy Smith (KE8JKS) and anyone else who wishes to help will meet at the clubhouse on Friday, August 21st at noon to load the coffin onto John's trailer and transport the gear to Dan's.

Discussion also ensued regarding getting dessert, plasticware from GFS, a Porta-John, and canned drinks. We will encourage people to bring their own chairs. John Doornhaag will bring a gallon of hand sanitizer. It was decided to have people arrive no earlier than 3:30pm with dinner at 5pm and the award ceremony to follow.

2020 CMARC Hamfest

- President Gordy Smith (KE8JKS) stated that he had been in contact with Jessica at the Okemos Conference Center regarding our reservation for this summer's cancelled Hamfest, and that they will hold our reservation deposit over for a 2021 Hamfest date, next September. Through discussion it was decided to reserve Saturday, September 18th for the 2021 Hamfest, since that does not conflict with any MSU football games or other Michigan ham club events. Gordy will reach out to Jessica to lock in that date and report back.

Ham Radio Classes

- Gordy Smith (KE8JKS) stated that he still doesn't have a computer for Zoom-casting from his workshop yet, so classes are still delayed.

Meetings

- Shannon Ranes (WA2NVK) asked if we might consider holding our general membership meetings as a live meeting in one of the Lansing park pavilions, like the VE Team does with testing. Dave Vick (W8ZZX) pointed out that the parks all close at dusk, so we would not have enough time for a meeting. Tom Rocheleau (WA8WPI) asked if anyone had heard any more information regarding the status of the clubhouse building; to date no one has.

SCOPE

- Shannon Ranes (WA2NVK) stated that Chris Ranes (NS8Q) was publishing the July/August issue of the SCOPE newsletter the week beginning Aug. 10th, so if anyone wanted to get an article in, get it to Chris ASAP.

Adjournment

- With no further business to discuss, it was moved by Dave Vick (W8ZZX), seconded by Dan Dembinski (KD8YDE) to adjourn the August Board Meeting at 7:26pm.

Respectfully submitted,

Dave Vick, W8ZZX
CMARC Secretary

CENTRAL MICHIGAN AMATEUR RADIO CLUB

GENERAL MEETING MINUTES

Friday, August 14, 2020

Attendance

Board Members Present: G. Smith (KE8JKS), D. Dembinski (KD8YDE), S. Ranes (WA2NVK), D. Vick (W8ZZX), G. Mulder (WB8LZG), D. McLain (KB8RAD), K. Fitzgerald (N9PC)

Board Members Absent:

Members Present: W8MKB, NS8Q, KD8NNQ, WA8WPI, WX8MOJ, WD8OVL, KD8VJD, N8FZ, N8LNU, KC8QZB, W8EO, WB8OIP, KB8DQQ

Visitors: Tim Conroy (WB8HRO)

Call to Order

- The meeting was called to order at 7:02pm
- President Gordy Smith (KE8JKS) led the group in the Pledge of Allegiance

Sign-In Sheets

- Secretary Dave Vick (W8ZZX) took attendance from the Zoom register..

Cards & Flowers Report

- There was no report.

New Members & Visitors

- We greeted Tim Conroy (WB8HRO)

Treasurer's Report

- Moved by Secretary Dave Vick (W8ZZX) supported by VP Dan Dembinski (KD8YDE) to accept the Treasurer's Reports as published in the current issue of the SCOPE newsletter. The motion carried.

Secretary's Report

- Moved by Secretary Dave Vick (W8ZZX) seconded by John Doornhaag (KD8NNQ) to accept the Minutes of the previous five Board and Membership meetings as published in the current issue of the SCOPE newsletter. The motion carried.

Interesting QSOs, QSLs, DX, & Other Contacts

- Ed Oxer (W8EO) shared that DMR talk-group 91 was very active with worldwide traffic.
 - VP Dan Dembinski (KD8YDE) shared he had a tower video from a ham in Japan.
 - Reza Beha (N8LNU) worked a station on DMR talk-group 3100 in Prince George BC, Canada, and made an Echolink contact to the South Ireland Repeater Network.
 - Allan Ostrander (KD8VJD) mentioned the Michigan DMR-1 Net on Monday nights at 8:30pm EDT/00:30Z.
- * Ed Oxer (W8EO) reminded us that the MSU Amateur Radio Club is running a UHF net every

Thursday evening at 8pm EDT/00:00Z, on the W8MSU/R repeater (442.900 MHz FM, +5MHz offset, 77Hz tone). The Host and Net Control is Jacob Bruner, KW4EV.

Deferred Business

- MSU ARC—Ed Oser (W8EO) spoke of the good relationship between CMARC and the MSU Amateur Radio Club, and how they appreciate our working the license testing.
- Ladies Night/Ziegenbein Picnic—President Gordy Smith (KE8JKS) stated that he has rented a Porta-John for the picnic, and his wife would be baking cupcakes, and ran through final details. Gordy, Secretary Dave Vick (W8ZZX), and John Doornhaag (KD8NNQ) would haul the club's tent coffin and related picnic/Field Day items out to Dan's from the clubhouse on Friday afternoon, the 21st. Further discussion of the picnic plans ensued. Kelly Fitzgerald (N9PC) will visit Gordon Foods for picnic supplies, VP Dan Dembinski (KD8YDE) will get the pork shoulders for roasting.
- President Gordy Smith (KE8JKS) shared that VP Dembinski had five large bags of empty cans and bottles to be returned, with the deposits contributed to the Building Fund.

New Business

- Dan Beuchert (WX8MOJ) shared that the upcoming ARPSC meeting might be cancelled, as there are no normal activities that the ARPSC would work with currently running. He asked if there were any topics that CMARC members might be interested in learning more about, and having the ARPSC present. Further discussion ensued related to Skywarn activities and training, and alternate meeting formats & locations.
- Hamfest—Discussion ensued regarding whether to have a "trunk sale" or an online swap meet of some sort. VP Dan Dembinski (KD8YDE) shared he had heard reports of online scammers from other virtual Hamfests, and maybe we should hold off on it. Treasurer Shannon Ranes (WA2NVK) said people could always put a For-Sale ad in the SCOPE. The matter was tabled until the next Board Meeting.

Adjournment

- With no further business to discuss, it was Moved by John Doornhaag (KD8NNQ), seconded by VP Dan Dembinski (KD8YDE) to adjourn the business meeting at 7:55pm.

Tonight's Presentation

- There was no presentation this evening.

Respectfully submitted,

Dave Vick, W8ZZX
CMARC Secretary

CENTRAL MICHIGAN AMATEUR RADIO CLUB BOARD OF DIRECTORS MEETING MINUTES

Saturday, September 5, 2020

Attendance

Board Members Present: G. Smith (KE8JKS), D. Dembinski (KD8YDE), S. Ranes (WA2NVK), D. Vick (W8ZZX), D. McLain (KB8RAD), G. Mulder (WB8LZG)

Board Members Absent: K. Fitzgerald (K9PC)

Visitors: J. Doornhaag (KD8NNQ), C. Ranes (NS8Q)

Call to Order

- The meeting was called to order by President Smith at 7:07pm

Club Business Discussed

- John Doornhaag has acquired a set of new wheels with solid tires for the club's canopy-storage "coffin"; he and Secretary Vick will meet at the clubhouse on Wednesday 9/9 to swap out the old wheels for the new ones. This will make moving the coffin much easier and safer.
- Secretary Vick asked if we could get rid of the donated laser printer in our storage space at the clubhouse, as it is obsolete and taking up space, and no one is using it. John Doornhaag will haul it to a recycler in Charlotte; Vick will help him load it when they get together to change coffin wheels. Treasurer Ranes asked them to salvage the toner cartridges, as they could be sold to raise funds for the club.
- President Smith and Vice-President Dembinski still have several bags of empty cans to turn in for deposits. They will donate the cash returned to the CMARC Building Fund. Discussion ensued regarding posting reminder notices in the Scope and on the Club's Facebook page, regarding making donations to the Building Fund.
- Treasurer Ranes spoke of potentially using Amazon Smile as a fundraiser for the club; for every sale made through our Smile portal on Amazon, the club would collect a small commission. She will research the program further and report back.
- Vice-President Dembinski spoke of hearing people on the LCDRA 2m repeater talking about CMARC being all but dead. We all need to keep public awareness up that the Club is very much alive, and as active as possible in these times.
- Treasurer Ranes noted that Dan Beuchert (WX8MOJ) couldn't attend the Board Meeting due to a family function, but he has sent out an email to the Board regarding the upcoming ARPSC meeting on 9/14. There will be a Skywarn training class conducted via Zoom.
- President Smith noted that he has finally taken delivery of his new computer for doing

online videos, and discussed ideas for a soldering class. It was thought that perhaps such a class could be conducted outdoors in a park picnic shelter, such as the VE Team uses for testing. Further discussion ensued, regarding the scope of class projects, project usefulness vs. kit cost, &c. We will look further into this. We also discussed various antenna-building projects, for a class application.

- It was noted that the Ingham County VE Team has another testing session coming up on 9/12 at Moores Park Pavilion. Don McLain stated that he has had some contacts from people interested in testing this month.
- Our next general membership meeting is this coming Friday, 9/11. Treasurer Raney reminded the Board that there is an election coming up, and we should consider any potential nominations.

Adjournment

- With no further business to discuss, it was Moved by Secretary Vick, seconded by John Doornhaag to adjourn the September Board Meeting at 8:09pm.

Respectfully submitted,

Dave Vick, W8ZZX
CMARC Secretary

CENTRAL MICHIGAN AMATEUR RADIO CLUB GENERAL MEETING MINUTES

Friday, September 11, 2020

Attendance

Board Members Present: D. Dembinski (KD8YDE), S. Ranes (WA2NVK), D. Vick (W8ZZX), G. Mulder (WB8LZG), D. McLain (KB8RAD), K. Fitzgerald (N9PC)

Board Members Absent: G. Smith (KE8JKS)

General Members: W8MKB, NS8Q, WD8OVL, KC8QCB, WX8MOJ, KD8MWA, N8FZ, N8LNU, WA8FHI,

Visitors: T. Conroy (WB8HRO)

Call to Order

- The meeting began at 7:03pm. In the absence of the President, VP Dembinski (KD8YDE) presided, assisted by Treasurer Ranes (WA2NVK).
- The assembled club recited the Pledge of Allegiance with no Flag present, followed by a Moment of Silence in memory of the victims of 9/11, as today is the 19th anniversary of the attack.

Sign-In Sheets

- Secretary Vick (W8ZZX) took attendance from the Zoom Participant List.

Cards & Flowers Report

- A card was sent to Bob Strobel (KB8DQQ) who injured his shin.

New Members & Visitors

- Our regular visitor Tim Conroy (WB8HRO) was greeted.

Treasurer's Report

- Moved by Secretary Vick (W8ZZX) supported by Don McLain (KB8RAD) to accept the Treasurer's Report as published in the CMARC website. The motion carried.

Secretary's Report

- Moved by Secretary Vick (W8ZZX) seconded by Don McLain (KB8RAD) to accept the Secretary's Report as published in the CMARC website. The motion carried.

Interesting QSOs, QSLs, DX, and Other Contacts

- Secretary Vick (W8ZZX) received a QSL card from the ARRL HQ station, W1AW
- Gregg Mulder (WB8LZG) made a SOTA contact in Quebec, running QRP.

Old Business

- Secretary Vick (W8ZZX) shared that he and John Doornhaag (KD8NNQ) had successfully replaced the pneumatic wheels on the club's coffin box with new, solid-rubber wheels

and sent the obsolete donated laser printer to Recycling. They would pass the recovered ink tank to Chris Ranes (NS8Q) for resale.

New Business

- Secretary Vick (W8ZZX) shared that the Ingham County VE Team would be holding an outdoor testing session on Saturday, September 12th at 11:00am at the Moores Park Picnic Shelter. Don McLain (KB8RAD) said he had received several inquiries, and anticipated a good turnout.
- Treasurer Ranes (WA2NVK) noted that we would be putting a flyer in the next issue of the Scope regarding a returnable can & bottle drive to benefit the Club's new Building Fund. She noted that Sec. Vick (W8ZZX) had contributed a check toward the Fund.
- Treasurer Ranes also noted that the October CMARC meeting will be Nominations for the Board of Directors; there are terms expiring at the end of the year and elections in December.
- Dan Beuchert (WX8MOJ) stated there would be an ARPSC meeting on Monday, Sept. 21st via Zoom, which would highlight online Skywarn training and Q&A. He shared that if anyone was interested in any special topic for future meetings, let him know. He also stated the group was thinking of recording such meetings for future rebroadcast.
- VP Dembinski (KD8YDE) showed the Club a pair of ARRL antenna theory books that he'd acquired, announcing they were available for interested members to borrow.
- Treasurer Ranes (WA2NVK) announced the QRPCW Club was running it's sprint on September 16th.
- VP Dembinski said he would try to line up a guest speaker for the October meeting.
- Guest Tim Conroy (WB8HRO) shared that he has tested negative for coronavirus, and that he appreciated being able to attend club meetings.
- Russ Fitzgerald (N8FZ) spoke of potentially expanding our Ladies' Night to a broader event, perhaps more of a family banquet. Discussion ensued regarding advertising the event as more of a Family Night, and perhaps rotating locations.
- Russ Fitzgerald also spoke of perhaps specifying one meeting as a picnic, and potentially inviting the MSU Ham Radio Club to a fall picnic and welcoming event. Further discussion ensued regarding how we can take on a mentoring role for the MSU student hams, and the history of CMARC and the MSU Radio Club. Mike Boensch (W8MKB) mentioned connecting a ham radio via SignalLink into Zoom, so attendees can make contacts.
- Russ also asked about club service projects, specifically highway rest area "coffee breaks," and if anyone still did that. Another thought would be a POTA activation, this year being the centennial year.
- Secretary Vick (W8ZZX) stated that since so many members had misplaced the recurring Zoom links for the general meetings, he would make sure they were posted to all members via email and social media in the future.

Adjournment

- With no further business to discuss, it was Moved by Secretary Vick (W8ZZX), seconded by VP Dembinski (KD8YDE) to adjourn the business meeting at 7:57pm.

Tonight's Presentation

- There was no presentation.

Respectfully submitted,

Dave Vick, W8ZZX
CMARC Secretary

CLASSIFIEDS

**From the Estate of
Dave Hayhurst / K8QH**

Gregg Mulder / WB8LZG
wb8lzg@sbcglobal.net

All prices are negotiable.

\$950

Ten Tec Orion II

Complete matching set includes rig, power supply, matching speaker, remote, mic, and computer interface. This is Ten Tec's top-of-the-line HF XCVR, plus ALL of the accessories too! It's a top-notch radio for contesting.

\$150

ICOM 208H Mobile VHF/UHF XCVR

Includes hand microphone

\$50

MFJ Wattmeter - Model 868

With an Analog scale and large face

\$40

Remote Antenna Switch

\$30

Beofeng UV5R

Dual-band hand-held with hand mic

\$25

Cushcraft 440 UHF Vertical

Will need to be removed from the home.

Realistic Programmable Scanner

MFJ Grandmaster Keyer - Model 282B

\$20

Two Mag-Mount 440 UHF Mobile Antennas

RTL-SDR / Dongle + Antenna

Used with Airspy Software

**From the Estate of
Dave Hayhurst / K8QH**

Gregg Mulder / WB8LZG
wb8lzg@sbcglobal.net

All prices are negotiable.

\$5/each

Books and Manuals

RFI Handbook

Hints and Kinks (1992 Edition)

Hints and Kinks (1999 Edition)

73 Dipole & Longwire Antennas by Ed Noll

Jimmy Dunahoo / KD8IWQ
517-743-1604

\$125

MFJ-989C Versa Tuner V (3KW)

Covers 1.8-30MHz, including MARC and WARC Bands. Built-in 300w dummy load. Comes with manual.

\$25

Workman SX-144/430 SWR-Wattmeter

Covers 2m/440 (120-500 MHz). Dial has a cross-needle display. Meter has three ranges (10W, 100W, and 500W).

Ed Hude / WA8QJE
Cell: (517) 420-7550
ebhude@yahoo.com

\$100

Radio Shack HTX-10

25-watt, SSB/FM Transceiver. Like new in sealed unopened box.

**From the Estate of W8LKE
Thomas Romanowski
(Non-Smoker)**

Ed Hude / WA8QJE
Cell: (517) 420-7550
ebhude@yahoo.com

No trades on Estate radios

\$900

Yaesu FT-950

HF -50 Mhz rig, Yaesu FP1030A power supply, Yaesu SP2000 speaker with 2 filters and Yaesu MD100ASX desk microphone. All items are like new, and in matching boxes. (Will not separate)

\$350

Two (2) Kenwood TM-G707A

Dual-band mobile radios with programming software.



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').

John Doornhaag | 1165 South Ainger Rd | Charlotte, MI 48813-9540

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
<i>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.</i>	

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: