

The Hertzian Herald



February 2024 • Volume 48, Issue 2 • Monroe, Michigan, U.S.A.

Hello to everyone,

Welcome and thank you for supporting MCRCA. Thank You to those who make every effort to attend and participate in our activities!

If you build it, they will come? Our VP Don has built a very good program to help anyone to get and upgrade their FCC licenses. It's unfortunate that the January Technician license class has been canceled due to too many students dropping out. We don't know why any individual has dropped their commitment to attend the class and in the end, it doesn't matter. I agree with Don that he has to tweak the rules a bit and require the non-refundable \$ upfront when registering for the class. We have to come to terms with the fact that some folks aren't serious people. What you might not know is that Paul and Don never collect enough to meet the actual cost of giving tests or classes. They do what they do (with some help) out of the goodness of their hearts and for the benefit of our hobby.

From Wikipedia:

Altruism is the [principle](#) and [practice](#) of concern for the [well-being](#) and/or [happiness](#) of other [humans](#) or animals above oneself. While objects of altruistic concern vary, it is an important moral value in many cultures and religions. It may be considered a synonym of selflessness, the opposite of [selfishness](#)

On September 12, 1962, a warm and sunny day, President Kennedy delivered his speech before a crowd of about 40,000 people, at [Rice University's Rice Stadium](#). Many individuals in the crowd were Rice University students.^{[9][11]} The middle portion of the speech has been widely quoted:

We set sail on this new sea because there is new knowledge to be gained, and new rights to be won, and they must be won and used for the progress of all people. For space science, like nuclear science and all technology, has no conscience of its own. Whether it will become a force for good or ill depends on man, and only if the United States occupies a position of pre-eminence can we help decide whether this new ocean will be a sea of peace or a new terrifying theater of war. I do not say that we should or will go unprotected against the hostile misuse of space any more than we go unprotected against the hostile use of land or sea, but I do say that space can be explored and mastered without feeding the fires of war, without repeating the mistakes that man has made in extending his writ around this globe of ours. There is no strife, no prejudice, no national conflict in outer space as yet. Its hazards are hostile to us all. Its conquest deserves the best of all mankind, and its opportunity for peaceful cooperation may never come again. But why, some say, the Moon? Why choose this as our goal? And they may well ask, why [climb the highest mountain](#)? Why, 35 years ago, [fly the Atlantic](#)? Why does [Rice play Texas](#)?



<http://mcrca.org/>

[www.facebook.com/
groups/
1643856795878368/](http://www.facebook.com/groups/1643856795878368/)

Club Officers

PRESIDENT

Keith Hutchinson KJ8H
keithhutch999@gmail.com

VICE PRESIDENT

Don Fritz N8BZN
donfritz56@gmail.com

SECRETARY

Brenda VanDaele KB8KQC
ka8ebi@yahoo.com

TREASURER

Fred VanDaele K8EBI
ka8ebi@yahoo.com

DIRECTOR

Paul Trouten W8PI
ptrouten@bex.net

DIRECTOR

Mike Karmol N8KUF
mkarmol@bex.net

DIRECTOR

STATION TRUSTEE
Wes Busdiecker KC8SKP
busdiecw@netscape.net

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MCRCA Meeting Minutes for January 18, 2024

Meeting called to order at 7:30 pm, by Keith KJ8H.

Pledge of Allegiance

Introductions: No new members, one upgrade, Brian KE8WYY, and no guests.

MINUTES: Motion by Mike N8KUF, supported by Aaron KE8PUN, to approve as written in the Herald. Approved.

TREASURER REPORT: Motion by Paul W8PI, supported by Wes KC8SKP, to approve the treasurer's report as passed out to the membership. Approved.

DX REPORT: Tom KG8P, Tom's program is on DX tonight.

CONTESTING: Paul W8PI, NA QSO Party, ARRL VHF, This month's QSO Parties Vermont, Minnesota, South Carolina, and North Carolina. ARRL International DX contest, VOTA, Paul showed a list of club members scores by rank.

TESTING: Paul - Next session - Sat. Feb. 17, 2024. **Appointments Preferred - FRN and email req'd**

CLASSES: Sat. Feb. 10, 2024 contact Don N8BZN – **Technician class**

ARPSC: Terry N8NYP announced meetings are held first Thursdays at the EMD.

ARRL: Dale not present

RRRA: Mike N8KUF, announced that we had one outage where the cold caused a Raspberry Pi to fail. A fix is in progress.

OLD BUSINESS: Club T-shirts, Barb was not at the meeting.

NEW BUSINESS: 2024 Elections

| | |
|--------------------------|---------------|
| President | Keith KJ8H |
| V-President | Don N8BZN |
| Secretary | Brenda KB8KQC |
| Treasurer | Fred K8EBI |
| Director 1 | Paul W8PI |
| Director 2 | Mike N8KUF |
| Director/Station Trustee | Wes KC8SKP |

Mike N8KUF made a motion seconded by Paul W8PI to close nominations. Approved.

Mike N8KUF made a motion seconded by Paul W8PI to accept the slate as presented to the membership. Approved.

DOOR PRIZE DRAWING: Terry N8NYP and John WA8YZB
50/50: Terry N8NYP

ANNOUNCEMENTS: none

PROGRAM: Tom KG8P did a program on DX

ADJOURNED: 8:52 pm

ATTENDANCE: 14

| | | | |
|--------------|---------------|--------------|------------|
| KE8PUN Aaron | KB8KQC Brenda | KE8WYY Brian | K8EBI Fred |
| WD8NWF James | WA8YZB John | KJ8H Keith | N8KUF Mike |
| W8PI Paul | KE8OSX Ron | N8NYP Terry | KG8P Tom |
| KE8NSU Tony | KC8SKP Wes | | |

Committees**Club Station**

Wes Busdiecker KC8SKP

DX Net

Soon

Field Day

Jeff Breitner KA8NCR

Finance

Paul Trouten W8PI (chair)

Fred VanDaele K8EBI

Dale Williams WA8EFK

HamFest

Fred VanDaele K8EBI

Hertzian Herald

Fred VanDaele K8EBI

Historian

Paul Trouten W8PI

Public Relations

Terry Kolton N8NYP

Tom Imlach KE8KNZ

Scholarship

Fred VanDaele K8EBI

Program Chairman

WANTED

Membership

Terry Kolton N8NYP

n8nyp@arrl.net

Property Custodian

Paul Trouten W8PI

We choose to go to the Moon. We choose to go to the Moon... We choose to go to the Moon in this decade and do the other things, not because they are easy, but because they are hard; because that goal will serve to organize and measure the best of our energies and skills, because that challenge is one that we are willing to accept, one we are unwilling to postpone, and one we intend to win, and the others, too.

It has been a long time since I've read JFK's moon speech but it says a lot in how things get done and how we can go so much further together when everyone contributes to the outcome. I'm very proud to have friendships with such folks in MCRCA. These individuals who do for other don't want to be applauded for their efforts. They seek to inspire others to make an effort as well. Perhaps with a rising tide of altruism we all can be lifted up. What can you do for your club?

I hope to see you at our next meeting Feb 15th.

73
Keith, KJ8H

ARPSC Report

Saturday March 2nd ARPSC Saturday Session at 9am - Advanced Winlink practice

Tuesday March 5th NWS Monroe SKYWARN Training Dundee Fire Dept 6:30pm-8:30pm Registration required <https://www.co.monroe.mi.us/305/Sky-Warn-Spotter>

Thursday March 7th March Meeting-County SKYWARN procedures

Saturday March 9th SPECIAL SATURDAY SESSION: Intro to ARPSC, *See below for more info

June 8th 2024 Erie Race for the Kids 5k at 9am

*On Saturday March 9th - 9am at EMD there will be a special session for anyone interested in emergency communications/ARPSC. This will be an excellent opportunity for those that successfully passed Don's class in February to learn about the role ARPSC performs for Monroe County. It is also recommended for those that do not currently participate in ARPSC or those that have started participating in the last year to learn the basics. Look for signup link on the Monroe ARPSC website under "Upcoming Public Service Event" at MCARPSC.ORG. I will also be getting a flyer up on the website.



If you are interested in honing your skills or building new ones, please feel free to stop in to any of our meetings or training sessions, or participate on our nets. We are here to help every operator learn and perform better. It doesn't matter if your call sign was just posted on the FCC database or you have had your ticket for decades, we are always looking for additional operators.

ARPSC meetings are usually the first Thursday of every month at 7:30pm at the EMD on Raisinville Rd. The next meeting is Thursday March 7th.

As always Thanks to the club and the club webmaster for linking our FB and webpage, and to Fred for his time getting this newsletter out.

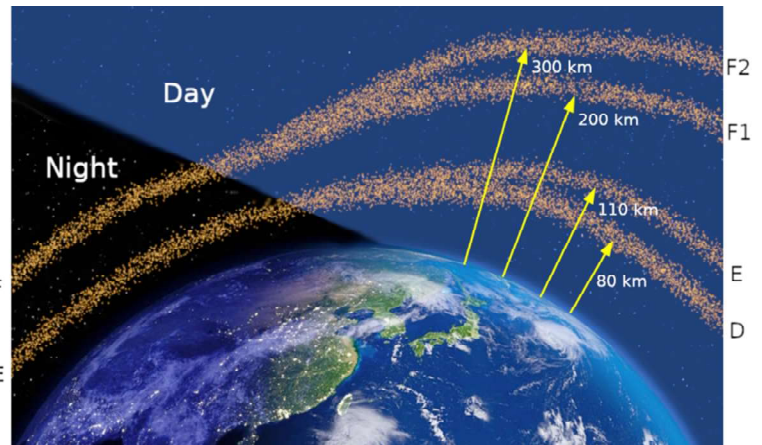
73
Lance Charter
KE8BYC
Emergency Coordinator
Monroe County Amateur Radio Public Service Corps

WILL LARGE SATELLITE CONSTELLATIONS AFFECT EARTH'S MAGNETIC FIELD?

by: Maya Posch

Imagine taking a significant amount of metals and other materials out of the Earth's crust and scattering it into the atmosphere from space. This is effectively what we have been doing ever since the beginning of the Space Age, with an increasing number of rocket stages, satellites and related objects ending their existence as they burn up in the Earth's atmosphere. Yet rather than vanish into nothing, the debris of this destruction remains partially in the atmosphere, where it forms pockets of material. As this material is often conductive, it will likely affect the Earth's magnetic field, as argued by [Sierra Solter-Hunt] in a pre-publication article.

A summary by [Dr. Tony Phillips] references a 2023 NASA research article by [Daniel M. Murphy] et al. which describes the discovery that about 10% of the aerosol particles in the stratosphere are aluminium and other metals whose origin can be traced back to the 'burn-up' of the aforementioned space objects. This is a factor which can increase the Debye length of the ionosphere. What the exact effects of this may be is still largely unknown, but fact remains that we are launching massively more objects into space than even a decade ago, with the number of LEO objects consequently increasing.



Although the speculation by [Sierra] can be called 'alarmist', the research question of what'll happen if over the coming years we'll have daily Starlink and other satellites disintegrating in the atmosphere is a valid one. As this looks like it will coat the stratosphere and ionosphere in particular with metal aerosols at levels never seen before, it might be worth it to do the research up-front, rather than wait until we see something odd happening.

The First Amateur Radio Station on the Moon, JS1YMG, is Now Transmitting

02/02/2024 – ARRL website

The Japan Aerospace Exploration Agency (JAXA) successfully landed their Smart Lander for Investigating Moon (SLIM) on January 19, 2024. Just before touchdown, SLIM released two small lunar surface probes, LEV-1 and LEV-2.

LEV-2 collects data while moving on the lunar surface, and LEV-1 receives the data.

The JAXA Ham Radio Club (JHRC), JQ1ZVI, secured amateur radio license JS1YMG for LEV-1, which has been transmitting Morse code on 437.41 MHz since January 19. The probe uses a 1 W UHF antenna with circular polarization and is transmitting "matters related to amateur business."

Radio amateurs have been busy analyzing JS1YMG's signal, with Daniel Estévez's, EA4GPZ, blog introducing the method and extraction results for demodulating Morse code from the signal, as well as extracting the code string.

It's unclear how long signals will be heard. JAXA has said that SLIM was not designed to survive a lunar night, which lasts about 14 days, and is due to return in a few days.

SLIM was launched on September 6, 2023, and landed on January 19, 2024, with the mission of analyzing the composition of rocks to aid research about the origin of the moon. SLIM's landing made Japan the fifth country to achieve a soft touchdown on the moon. The landing was achieved with exceptional precision — within 180 feet of its targeted touchdown location.



A rendering of the Smart Lander for Investigating Moon (SLIM) on the lunar surface. [Japan Aerospace Exploration Agency, image]

ARC TRANSMITTER DEVELOPMENT (1907-1919)

Because of their size, complexity and cost, alternatortransmitters were mostly used for longrange radiotelegraphy, and rarely used for audio transmissions. But another developing continuous-wave technology also showed promise — the arc-transmitter, which had been perfected in 1902 by Valdemar Poulsen of Denmark. The Poulsen Wireless Station at Lyngby, from the June, 1908 issue of *Modern Electrics*, was an early review of Poulsen's groundbreaking work.

Lee DeForest in particular would spend many years trying to develop arc-transmitters for audio transmissions, both for point-to-point communication and for broadcasting entertainment and news. Forced out of United Wireless in late 1906, DeForest went on to form the Radio Telephone Company, to promote "sparkless" arc-based transmission systems. But although DeForest made a number of well publicized experimental and publicity transmissions, he was ultimately unsuccessful in developing a reliable arc system. (A major problem likely was the fact that he never got around to purchasing the rights to use Poulsen's patents, which seems to have led to some hit-or-miss engineering work). In 1907 DeForest's company supplied the vessels of the U.S. Navy's "Great White Fleet" with arc radiotelephones for an around-the-world voyage. This innovation merited articles in two 1908 issues of *Telephony* magazine: *Wireless Telephony in the Navy*, by N. J. Quirk, appearing in January, and *Wireless Telephony for the Navy*, by Herbert T. Wade, which ran in May. However, the transmitters proved impracticable, and were scraped at the end of the voyage. DeForest's entertainment broadcasting efforts included an opera, direct from the Metropolitan Opera House in New York City, reviewed in *Grand Opera by Wireless*, in the March 5, 1910 issue of *Telephony*, plus a concert by Mme. Mariette Mazarin, reported by *Radio Telephone Experiments* in the May, 1910 issue of *Modern Electrics*. However, the Mazarin concert was the final effort for many years for DeForest's broadcasting experiments — the technology for quality audio transmissions just did not exist yet. It wouldn't be until 1916, following the development of vacuum-tube transmitters, that DeForest would return to exploring radio for news and entertainment broadcasts. In addition, the company's attempt to set up a point-to-point radiotelephone service along the Great Lakes also collapsed at this time, as reported in a short note appearing in the August 6, 1910 issue of *Telephony*: *Great Lakes Wireless Telephone Out of Business*. These financial and technical problems, plus legal troubles, caused DeForest to suspend his arc-transmitter research and development for audio transmissions.

Numerous companies on both sides of the Atlantic and in Japan tried developing arc-transmitters for audio transmissions, but with very limited success. For eighteen months in 1908-1909, equipment designed by a German company, Telefunken, was tested by the U.S. Army Signal Corps, "with a view to proving the practicability of radio telephony in military

communication". However, the results, as reported in the Back to the Humble Beginnings section of Austin C. Lescarbourea's 1922 *Radio For Everybody*, were "Rotten, absolutely Rotten!" This extract also reviews some of the radio-related frauds which occurred at the time.



DR. VALDEMAR POULSEN

In 1909, the U.S. rights to Poulsen's arc-transmitter were purchased by Australian-born Cyril F. Elwell, who became Chief Engineer of a company set up in San Francisco, California, which became the Federal Telegraph Company. The company quietly prospered, and went on to produce progressively more powerful and sophisticated arc-transmitters for radiotelegraph use. An article by Elwell, *The Poulsen System of Wireless Telephony and Telegraphy*, which appeared in

the April 2, 1910 issue of the *Journal of Electricity, Power and Gas*, appeared a short time after the new company was founded. (Although the arc-transmitter worked well, the automated high-speed telegraphing equipment reviewed in Elwell's article still needed some work, according to Charles V. Logwood's *High Speed Radio Telegraphy*, from the June, 1916 issue of *The Electrical Experimenter*.) While Federal Telegraph successfully used arc-transmitters for long-range radiotelegraph transmissions, it apparently never tried to develop any sort of broadcast service. Elwell left Federal Telegraph in 1913, and Leonard Fuller became the company's new Chief Engineer. But Elwell continued to work as a Poulsen arc-transmitter designer on both sides of the Atlantic. An article which appeared in the September 6, 1919 *Electrical Review*, *Developments of Poulsen Wireless System Shown* reviewed radiotelegraph station engineering work for the period from 1909 through 1919.

As late as 1915, some experimenters were still working on improvements in arc-transmitter design for audio transmissions, in addition to radiotelegraph use, for example Thomas Appleby's experimental station in West Philadelphia, Pennsylvania, which was reviewed in the First 60 Cycle A.C. Arc Radiophone section of his memoirs. However, although arc-transmitters were a significant advance over spark transmitters, they still were somewhat complicated, generally limited to radiotelegraphy, and were eventually supplanted by the development of vacuum-tube transmitters, which were even more efficient and reliable.

The above article is from Thomas H White's web site and UNITED STATES EARLY RADIO HISTORY

Fantastic Article found at <http://www.sfmuseum.org/hist/poulsen.html>

Monroe County Radio Communications Association

Dues run from January 1st to December 31st of each year. As a current / Past Member, you are invited to attend our monthly meetings to find out the latest plans for our club. You may pay your dues at any regular meeting or by filling in the form below and mailing it to:

MCRCA, 4 Carl Dr, Monroe, MI 48162.

Your membership and support will help with the continued success of our club. Thank you.

MEMBERSHIP APPLICATION / RENEWAL FORM

Regular – \$10 — Add'l Family – \$5 each

DATE _____ ARRL MEMBER? Y _____ N _____ RRRRA Member? Y _____ N _____

NAME _____

ADDRESS _____ PHONE _____

CITY _____ STATE _____ ZIP _____

CALL _____ CLASS _____ E-MAIL: _____

ADDITIONAL Family Members: _____

Please Circle All That Apply:

Active Bands: 160 80 75 40 30 20 17 15 12 10 6 2 220 440 higher

Modes: CW - SSB – DIGITAL - PACKET - RTTY - FM - DX - MOBILE - EME - SAT - ATV - SSTV

Interests: Traffic - DX - Contests - Foxhunts - Satellites - Nets – Antennas - Computers
Emergency - ARES/RACES - Skywarn - Classic Radios (circle all that apply)

Do you plan to upgrade your license? Y _____ N _____ If yes, what class? _____

What kinds of meeting programs would you like to see?

Other activities you would like to see the Club offer _____

General Comment's _____

Signature _____ Date _____



The American Radio Relay League's round-up of the forthcoming week's DX activity on the amateur radio bands

This week's bulletin was made possible with information provided by W2GD, The Daily DX, 425 DX News, DXNL, Contest Corral from QST and the ARRL Contest Calendar and WA7BNM web sites. Thanks to all.

GEORGIA, 4L. Alex, K6VHF will be QRV as 4L/K6VHF from Rustavi from February 10 to 18. Activity will be on 80 to 6 meters using CW, SSB, RTTY, and FT8. QSL direct to home call.

MADAGASCAR, 5R. Eric, F6ICX is QRV as 5R8IC from Sainte-Marie Island, IOTA AF-090, until March 31. Activity is on 40 to 10 meters using mainly CW. This includes being active on Satellite QO-100. QSL to home call.

SAMOA, 5W. Operators YT1AD, YU3AA, UA9OLY, and RC9O will be QRV as 5W8A, 5W0AA, 5W0LY, and 5W0RC, respectively, from February 10 to 19. Activity will be on the HF bands. QSL to home calls.

UGANDA, 5X. Alan, G3XAQ and Don, G3XTT will be QRV as 5X1XA from February 12 to 20. Activity will be on the HF bands using only CW. This includes being an entry in the upcoming ARRL International DX CW contest. QSL direct to G3SWH.

YEMEN, 7O. Vlad, OK2WX is QRV as 7O2WX from Socotra Island, IOTA AF-028, until February 12. Activity is on 160, 80, and 40 meters. QSL via IZ8CCW.

LESOTHO, 7P. Pista, HA5AO is QRV as 7P8AO until February 19. Activity is on 40 to 10 meters using CW, SSB, and FT8. QSL via LoTW.

TRINIDAD AND TOBAGO, 9Y. Special event station 9Y24C will be QRV from February 10 to 13 for the National Carnival Celebration in Trinidad and Tobago 2024. Activity will be on various bands and modes. QSL via LoTW.

TONGA, A3. Bob, W7Yaq and Al, K7AR will be QRV as A31DK and A31DL, respectively, from Nuku'alofa, IOTA OC-049, from February 15 to 27. Activity will be on the HF bands. QSL via LoTW.

CHINA, BY. Zhang, BH4FSK plans to be QRV as B5/BH4FSK from Daishan Island, IOTAAS-137, from February 13 to 15. Activity will be on 80 to 10 meters, including 6 meters, using QRP power. QSL to home call.

EASTER ISLAND, CE0. A large group of operators will be QRV as CB0ZA from Robinson Crusoe Island, IOTA SA-001, from February 10 to 24. Activity will be on 160 to 6 meters, including 60 meters, using CW, SSB, RTTY, and FT8 in DXpedition mode. QSL via N2OO.

SAUDI ARABIA, HZ. Members of the Saudi Arabia Radio Society will be QRV with special event stations 7Z1WRD, 8Z1WRD, and HZ1WRD from February 11 to 13 to commemorate World Radio Day. QSL via operators' instructions.

GUINEA-BISSAU, J5. Livio, IZ3BUR is QRV as J52EC. Activity is in his spare time mostly on 10 meters using SSB. QSL direct to home call.

ARUBA, P4. John, W2GD will be QRV as P44W from Santa Cruz from February 12 to 20. Activity will be on all bands, with an emphasis on 30, 17, and 12 meters, using CW as time permits. This includes being a Single Op/All Band entry in the upcoming ARRL International DX CW contest. QSL via N2MM.

PALAU, T8. Nobu, JA0JHQ will be QRV as T88PB from Koror Island, IOTA OC-009, from February 12 to 15. QSL direct to home call.

ANTIGUA AND BARBUDA, V2. Chuck, KG9N is QRV as V26CV from Antigua, IOTA NA-100, until February 20. Activity is on various bands using CW and SSB. This includes being an entry in the CQ World Wide WPX RTTY contest and the upcoming ARRL International DX CW contest. QSL to home call.

NAMIBIA, V5. Frank, DL7ATA is QRV as V5/DL7ATA until March 23. Activity is on the HF bands using SSB in his evening hours. QSL to home call.

BERMUDA, VP9. Darrell, AB2E will be QRV as AB2E/VP9 from February 14 to 19. Activity is on the HF bands using mainly CW with some FT8, and with a focus on 30, 17, and 12 meters. This includes being active as VP9I in the upcoming ARRL International DX CW contest. QSL to home call and VP9I via WW3S.

VIET NAM, XV. BJ, WA7WJR will be QRV as XV9WJR from February 12 to 22 from the Can Gio Mangrove Biosphere and the Binh Chau-Phuoc Buu Nature Reserves. Activity will be holiday style on 20, 17, 15, 12, and 10 meters using CW, SSB, and various digital modes. QSL direct to home call.

VANUATU, YJ. Takio, JH3QFL and Mamoru, JH3VAA are QRV as YJ0AA and YJ0MN, respectively, until February 11. Activity is on the HF bands using mostly FT8, and on Satellite IO-117. QSL via LoTW.

THIS WEEKEND ON THE RADIO. CQ World Wide RTTY WPX Contest, RSGB 1.8 MHz CW Contest, NCCC FT4 Sprint, Weekly RTTY Test, QRP 80-Meter CW Fox Hunt, NCCC Sprint Ladder, K1USN Slow Speed CW Test, FISTS Saturday CW Sprint, Asia-Pacific Spring CW Sprint, SKCC Weekend CW Sprintathon, KCJ Topband Contest, Dutch PACC Contest, OMISS QSO Party and the Balkan HF Contest will keep testers busy this upcoming weekend.

The K1USN Slow Speed CW Test, 4 States QRP Group Second Sunday Sprint, ICWC Medium Speed CW Test, OK1WC Memorial, Worldwide Sideband Activity Contest, PODXS 070 Club Valentine Sprint, NAQCC CW Sprint, QRP 40-Meter CW Fox Hunt, Phone Weekly Test, A1Club AWT, CWops Test, VHF-UHF FT8 Activity Contest, Mini-Test 40 CW, Mini-Test 80 CW, DARC FT4 Contest and the RSGB 80-Meter Club Data Championship are on tap for February 12 to 14. The ARRL School Club Roundup runs from February 12 to 16.



Amateur Radio Examinations Monroe, MI

Monroe County Radio Communications Association Amateur Radio examinations are held the 3rd Saturday of every even numbered month at:

American Red Cross Chapter Bldg.
1645 North Dixie Highway
Monroe, MI 48161

Registrations preferred
Call for information.
email address and FRN required

2024 Schedule:
February 17 April 20
June 15 August 17
October 19 December 21

TESTING BEGINS PROMPTLY AT 9:00 AM

Applicants are expected to have all forms filled out and be ready to take tests at that time. Coffee and doughnuts are available at 8:30 AM. For more information or to make reservations, call Paul Trouten - W8PI at 734-854-2224

Join us at the next meeting

February 15th at 7:30 pm
American Red Cross Chapter Bldg.
1645 North Dixie Highway
Monroe, MI 48162

Local Net

ARPSC Net - Every Monday evening on '72-Monroe
(146.72 Mhz) starting at 8:00pm.

ARPSC Meeting first Thursday of every month at the
EMD office on Raisinville Rd.. 7:00 PM

One Day Bi-Monthly Technician classes

Next class will be April 13, 2024 --- No class in June.

The Monroe County Radio Communications Association (MCRCA) is offering a one-day Amateur Radio course for the entry level Technician class license. The class will run from 8:30 AM to 4:00 PM on the **second Saturday of every even numbered month**. The cost is \$10 and includes lunch, snacks and beverages. The test will be conducted immediately following the class and has a separate fee of \$14. These classes will be held at the Red Cross building, 1645 N Dixie Hwy, Monroe, MI 48162.

There is a maximum class size of 10 people on a first come first served basis and you should sign up no later than 1 week before the class. All study material and testing paperwork will be provided at the time you sign up and you should plan on doing some pre-class studying to make things easier in the class.

If you are interested in becoming a Ham Radio Operator, please call or email me to get signed up for the next class.

N8BZN Don Fritz / (419) 345-4495 after 6PM / Donfritz56@gmail.com

New MCRCA Members

Please welcome recent new members to the club.