



# MCRC

## Spark Gap



The Longest ARRL  
Affiliated Club in  
Michigan

March 2024

Volume 72 Issue 3

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Note: Due to a hard drive failure, pages are not numbered this month only.



The Motor City Radio Club meets the second Friday of each month (except in February and August) at the Copeland Center in Wyandotte. 2306 4th St, Wyandotte, MI 48192 Door open at six for Eyeball QSO's. Next meeting at the Copeland will be March 8th. Starts at 7pm.



Planning for 2024 Field Day has begun. Field Day Chairman this year is Craig N2WXD. Scope of operating this year will be determined by the number of people who sign up. We would like to run 2A plus a GOTA station this year.

We need plenty of operators for this to be a success. First Field Day meeting will be sometime in February. Look in next month's Spark Gap for date and time and location.

Craig is looking for captains in the following areas:

1. Safety Officer
2. Radio Setup
3. Generator

Anyone interested, reach out to him during the net, or contact info on Page 15 of this month's Spark Gap.

### On-Air Activities

#### MCRC 2 Meter Net:

Join us every Tuesday night at 9PM for the Motor City Radio Club 2 Meter net on the 147.24 Wyandotte Repeater. 100 Hz tone. or use EchoLink WY8DOT-R.

#### CW (QMN) Traffic Nets:



Net Name	KHz	Days	Time
Michigan Net	3563	Sun-Sat	18:30 hrs
Michigan Net	3563	Sun-Sat	22:00 hrs

#### Digital Traffic Nets:

Net Name	KHz	Days	Time/Mode
Michigan Digital	3583	Tue,	20:00 hrs
Traffic Net		Thurs,	Olivia
(MIDTN)		Sat.	8-500

#### Southeast Michigan Traffic Net:

2215 hours each night on the Spirit of 76 repeater. 146.76 with a 100 Hz pl.




## SKYWARN SPOTTER TRAINING

HOSTED BY NATIONAL WEATHER SERVICE  
DETROIT/PONTIAC

BEGINS AT 7 P.M. THURSDAY APRIL 11th  
WAYNE COUNTY COMMUNITY COLLEGE

DOWNRIVER CAMPUS 21000 NORTHLINE  
TAYLOR MICHIGAN

  
**SKYWARN**

CLASSES ARE ALSO BEING HELD IN PERSON AND ONLINE FROM MARCH TO JUNE THOROUGHOUT SOUTHEAST MICHIGAN. FOR MORE INFO VISIT:  
<https://www.weather.gov/dtx/skywarncert>

Greetings, and Happy Spring!

Ah, yes! "In the spring a young man's fancy lightly turns to thoughts of" .... Radio! (Sorry lord Tennyson. I only tweaked "Locksley Hall" a little when I plagiarized your line)

Before I recount the wonders of spring, let me first thank everyone for making February's dinner a phenomenal success. Literally every person I've spoken with has had positive comments, and it's because we all make a really great group. My thanks go out to Craig for his diligent work, and to everyone who came together for our tasty meal.

## President's Corner



This spring has something a bit special to look forward to. On April 8, we can travel into Ohio a bit and witness a total solar eclipse. I personally enjoy putting on welding goggles and simply watching the show, but NASA is hoping ham operators will help them understand the atmosphere while the sun is hiding behind the moon. You can learn how to contribute to the research at this website

<https://svs.gsfc.nasa.gov/13288/>.

Moving from "space weather" to "terrestrial weather", spring is also what we Michigan folks often consider the beginning of storm and tornado season. But as fun as it might sound to get on a high roof to watch these particular weather events, let's not. Instead, let's take a SkyWarn class and join with the National Weather Service live spotter program to learn the safe way to deal with these storms. As Hams, we can observe and report by radio, so it's good radio fun, good for our community, useful for NWS, and something I hope everyone considers doing. Remember, as an amateur radio operator you must complete this training every two years, and be assigned a spotter ID number by the WCAPSC to join a SkyWarn weather net in Wayne County.

This year we were all honored by being asked to secure a Downriver location for a live-in-person SkyWarn training event. All are welcome, and I'm very excited to announce that we've received final approval to present it at the Wayne County Community College In Taylor on Northline road in the Prechter theater annex. It's been quite a while since this has been offered so near to us, and I hope everyone attends on Thursday April 11 at 7pm. I'll be there, and I've arranged for everyone who attends to find a special surprise! Yup, it's food. I've scheduled a hotdog vendor selling snacks and drinks to set up shop right in the meeting auditorium! If I sound a little proud of myself for making this happen with the inclusion of food, it's because I am. Even if someone isn't licensed to operate radio, there are other ways for anyone over 13 years old to safely participate with SkyWarn. So bring anyone interested in weather for a fun and useful education. Let's all share the details of this event with anyone we know who may be interested.

Speaking of SkyWarn, our local Wayne County ARPSC (ARRL) emergency coordinator Keith Armitage KD8ZSK will be speaking at our March meeting. I'm hoping his words will help get everyone on board with SkyWarn, and also with assisting Wayne County with scheduled public service events throughout the year. I'll let him share the exciting details himself, so make sure you attend to find out how you can be a part of this good work. Let's get ready for spring, help our community, and have fun with radio in the process.

73, and stay well!

-Tony KE8NSU



Club Call W8MRM  
Since 1934

## General Membership Meeting

February 17, 2024

### Motor City Radio Club

**President** – Tony Griffin KE8NSU

**Vice President** – Bob Lawrence K8HV

**Secretary** – Bryan Shiroda - KC8ZIQ

**Treasurer** – Craig Dunn N2WDX

**Custodian** – John Roberts, N8KAM

**Trustees** – Jim Baska KD8HFX

John Roberts N8KAM

**Parliamentarian** – Dale Poblentz WA8FRD

February meeting was the yearly Club Banquet. No business was discussed.



The David Sarnoff Radio Club hosts a special event station every year on March 14th in conjunction with the Princeton Pi Day & Einstein Birthday Party held in Princeton New Jersey.

Listen for our Special Event Station, Callsign: **N3P** (*November three Papa*) starting 0000 UTC on March 14, 2024. (8 PM Eastern Daylight Time on **Wednesday**, through 7:59 PM EDT **Thursday**).

We will use “Pi-Like” frequencies:

14.031 MHz

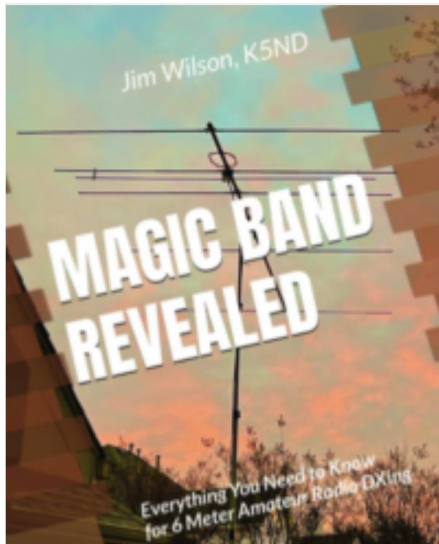
14.314 MHz

7.031 MHz

7.227 MHz (pi ~ 22/7)

**QSL: Don Corrington,  
7 Pinewald Lane,  
Burlington, NJ 08016-3421**

Website: [n2re.org/pi-day-special-event](https://n2re.org/pi-day-special-event)



## Now Available: New Edition of “Magic Band Revealed” by Jim Wilson, K5ND

Back in October of 2021, SPARC welcomed Jim Wilson, K5ND to discuss 6 meters, the “magic band” of amateur radio. Jim has recently released a new edition of his book *Magic Band Revealed*. Available in paperback or as a PDF, Jim’s book is one of the most trusted sources of information on 6 meter DXing.

<https://www.southpasradio.org/2024/02/new-magic-band-revealed/>

## RF AND OUR BODIES - RADIATION FROM RADIOS CAN BOTH HURT US AND HEAL US.

-- Tony Griffin KE8NSU

Radiation is somewhat analogous to fire. Being considered good or bad can be best determined by its application, not simply by its presence. Fire that cooks your food in a tasty way is good. Fire that burns down a house is bad. Radiation is similar, but we're almost always supposed to be afraid of it, aren't we? That's what movies and TV try to portray. And nearly every movie and TV show is far more interested in scary drama than in correct scientific fact.

So, yes, like fire we need to be careful with radiation, but not terrified. Radio operators need to be more careful than some others, but we still shouldn't be afraid. "Danger" from radiation is not always present just because radiation is present, and the radio radiation we're often near can literally heal a person and extend life considerably, as you will soon see. Let's look at how various types of radiation impacts our bodies in general, then focus on the radio portion. At the end I'll share how radio waves, just like the ones you and millions of others use everyday, can heal a person while they're sitting at home relaxing with family.

Various radiation types affect human tissues in different ways. This is due to heats thermodynamics and entropy, resonance, waters polar molecule dipole moment spin activation, etc. The time duration of the exposure is important, too. The same basic principles that let a microwave heat your dinner can let radiation damage your body.

This is further analogous to a comparison between the time you set on the microwave to warm food, and the amount of time a person spends near radiation that may be dangerous. You can heat a microwave burrito in 30 seconds, but you can't cook a large baked potato in 30 seconds. The same "time equations" are true for our bodies. And we're bigger than potatoes. You still shouldn't try to use a microwave oven for a hand warmer, though.

Radiation is everywhere. Literally EVERYWHERE! Even places we don't expect. Like in bananas.

Yup. Bananas. They almost universally contain a potassium-40 radionuclide and are naturally radioactive. They're neat little bundles of tasty "radiation". Brazil nuts have potassium too, but they ALSO contain radium! And we all remember radium being used in luminous watch dials until the 1960s.

Do you like amethyst jewelry? These are often irradiated and must be stored for several months to let the radiation dissipate before they can be sold. Some diamonds and sapphires are also government regulated in this way because of radiation.

Do smoke detectors keep you safe at home? Many contain americium-241. They use the radiation particles to bounce off smoke particles to detect smoke and sound the alarm. Thinking about escaping to the outdoors? Look, there's an exit sign over that door! Let's go! Many of these signs use tritium to make them glow in the dark without batteries or power. You guessed it, tritium is a radio isotope of hydrogen. But would going outside help you escape radiation?

Even though we seldom think of it this way, a sunburn is technically a radiation burn. The metallic zinc in our sunscreen simply reflects and absorbs the radiation before it reaches our top layer of skin and causes burn damage.

Please understand that I'm not trying scare anyone by sharing these things. In fact, I'm trying to do the opposite and show that you don't need to be scared. Not even of nuclear power plants! Perhaps nuclear power generation will be the topic of a future article, but I don't want to stray from the topic today.

In the ionizing radiation category, some particles like neutron emissions pass through our bodies (and the entire planet) but never even slow down, and others can't even make it through our outer layer of skin before they harmlessly bounce off or stop moving completely (alpha and beta particles). Others fall in between these extremes and vary in the danger and possible



tissue damage. If you get enough radiation for long enough, you're in a bad circumstance. That's why people working near ionizing radiation wear "dose meters" called dosimetry to keep track of exposure. That's why potassium iodine is ingested by exposure victims to fill their thyroid with a harmless substance instead of letting it fill with radioactive material.

But even ionizing radiation can be used to heal in hospital environments. Proton knives are one example, but they aren't really a knife at all. It's a beam of protons. When a physician focuses the proper intensity beam of protons inside a patient, it can cut cancer like a knife. And because it passes through the skin, no real knife or scalpel is needed.

Radio folk are a lot more accustomed to the non-ionizing radiation category, though, and that's our topic here. This type of radiation works with waves, electrons, and magnetic fields, but as its category name states, doesn't have particles in the form of ions. The effects of our radio waves can span the gamut of being absorbed by our bodies, to fully entering as they partially or completely pass through us (I. E. an x-ray), or completely bouncing off of us, depending primarily upon the power and wavelength.

If we consider the magnetic portion of non-ionizing radiation, we know the strength of the field matters. We call it magnetic flux density, and use this in certain antenna designs. If you've ever had an MRI, you know that you were positioned inside a spinning magnetic field with a flux of from around 1 to 5 Tesla (50,000 Gauss) magnitude, yet you didn't feel a thing. That's a pretty strong field requiring a lot of electricity and super conductors that are helium cooled to near absolute zero (about -270°F). A small harmless metal object in this field can easily accelerate to a speed that severely injures a person it accidentally strikes or even penetrate a wall! When you consider that the entire earth's magnetic field is only around 0.00005 Tesla, it gives perspective. This magnetic field from an MRI entered your body completely, yet you suffer no harm and never feel the polarity of paramagnetic particles change inside your cells. This change is detected in coils (antenna) around the machine and computers use this to generate images. So, in simple terms, the magnet makes your cells transmit a magnet generated radio signal that the machine receives to draw layered pictures of your body's cells in 3D.

You can literally be killed by almost any radiation under the right conditions, but we're all exposed to radiation constantly from both nature and man without a problem. We all know about this from our high school educations, our radio training, from OSHA, and from the ARRL, but we seldom think about it. And it's generally not a concern for most of us, even if we're radio operators or live near ore deposits or at high altitudes where exposure is higher.

Now let's consider the opposite side of the coin. Here's an example of great good happening when low power radio radiation hits our bodies. It doesn't kill you, it saves you! Radio waves hitting resonance inside some people's bodies is actually HELPING them in a big way by changing certain cells.

It's called "radio frequency ablation", and while it's not a new understanding, it's only recently been adapted and approved to use at home instead of in a hospital. It uses RF, just like your ham radios, to kill cancer cells in a very selective and specific way. Actually, it's more like an unmodulated CB radio because it's tuned to around 27.12 MHz AM (11 meters), and CB channel 14 is 27.125MHz AM (the FCC now permits CB FM as well). The same frequency is also commonly used for other "human body things" like hair removal.

A cancer patient simply places the small antenna in their mouth, turns on the transmitter that's about the size of a small HT radio, and the pretuned unit transmits on a low power "cancer cell resonant frequency". Only the targeted cancer in that person's body resonates at this wavelength, and this resonance produces heat in the form of a standing wave. The cancer cell is the radios "receiver". It gets warm similar to the way food heats in a microwave oven, and then the targeted cell "dies". Bye bye cancer!

The surrounding healthy cells don't resonate so they don't heat up and they ignore the radio signal. It's exactly like tuning in your favorite repeater, and not being heard on other repeaters nearby. The target cells are chosen just like the target repeater is chosen.

It's a little like putting both ice cream and a steak together in your microwave, but being able to tune the frequency of the microwave to only cook the steak without melting the ice cream. Obviously there's more to it, but that's an easy way to envision the process. You only "cook" the cancer.

Isn't physics great? And for that matter, isn't radio pretty cool too? The same principles that lets us communicate around the world without wires also selectively targets and kills cancer inside our bodies as we sit at home relaxing.

If you want more info on this new radio cancer treatment, read more here.

<https://www.karmanos.org/karmanos/news/karmanos-cancer-institute-first-to-receive-new-fda-4771#:~:text=The%20innovative%20TheraBionic%20P1%20device,%2D%20and%20second%2Dline%20therapies.>

And here

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3845545/>

For more on the danger side of radio radiation, look here...

<https://www.arrl.org/rf-exposure>

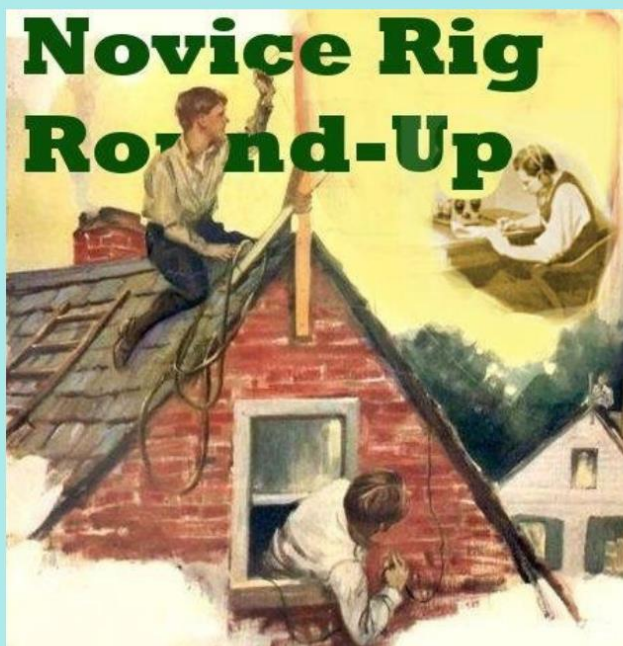
And here...

<https://www.osha.gov/radiofrequency-and-microwave-radiation>

If you're interested in ionizing radiation, that's not radio, so I'll let you search Google on your own. I won't help you make atomic bombs, but you can ask me about the time I made a radiation alarm trip inside a nuclear power plant because I had eaten too many bananas (remember, radiation is everywhere).



**Novice Rig Roundup 2024 will be held  
March 2, 2024 00:00 - March 10, 2024 23:59  
UTC**



**Novice Rig Roundup (NRR) is an annual 9-day operating event celebrating the old Novice type equipment, and operating restrictions, of over 60 years ago. Each March we put our nostalgic stations on the air to make contacts with each other, and anyone else that cares to join in. NRR is focused on the days of 75 watts input at the plate and crystal controlled transmitters - however, ALL stations are welcome.**

REGISTRATION: There is no pre-registration for Novice Rig Roundup. Simply report your totals at the end of the event here: [NRR Score Submissions](https://novicerigroundup.org/nrr-score-submissions)

**Website:**

<https://novicerigroundup.org/>



***ST. PATRICK'S DAY***

# ***NOSTALGIA SALE***

**MARCH 16 @10AM-3PM**

**MEMBER-ONLY PREVIEW FROM 9AM-10AM**

**\$15 MUSEUM ADMISSION** (\$13 if you purchase online)

**FREE TO MEMBERS**

## **ITEMS ON SALE:**

Aircraft manuals

History books

Diecast aircraft models

Aircraft prints





Vintage aircraft equipment

**and much, much more!!**

## **QUESTIONS:**

contact Christina at (734) 483-4030 x239

or [christina.warren@yankeeairmuseum.org](mailto:christina.warren@yankeeairmuseum.org)

**YankeeAirMuseum.org** |    

## Motor City Radio Club Member Library

The MCRC has a library of valuable knowledge that is available for loan to all members. The library includes both books and audio tapes on various ham related subjects. Members are encouraged to take advantage of this valuable member benefit.

Below is a list of the resources currently in the library.



The ARRL- Operating Manual For Radio Amateurs	Troubleshooting Solid State Circuits - George Loveday, Arthur H. Seidman
The ARRL- RFI Book 2nd Edition...Practical Cures for Radio Frequency Interference	Getting started in Electronics -Forrest M. Mimms, III
The ARRL- Ham Radio License Manual 1st Edition Level #1 Technician	National Electrical Code 2005 -International Electrical Code
The ARRL- Handbook 2008...For Radio Communications.	Ham Antenna Construction Projects -J.A. Stanley
The comprehensive RF Engineering Reference 85th Edition	Beam Antenna Handbook -5th Edition Orr & Cowan
Simple, low cost Wire Antennas for Radio Amateurs	Amateur Radio Vertical Antenna Handbook -Capt. Paul H. Lee USN (ret) N6PL
The ARRL- Handbook 2001 78th Edition	Digital Interfacing with an Analog World 2nd ed -Joseph J. Carr
The ARRL- Spread Spectrum Source Book	
ARRL DVD Amateur Radio Today	
ARVN DVD Digital Voice for Amateur Radio HF: AOR, WinDRM, DRMDV, FDMDV 25 Minutes VHF/UHF: D-Star P-25 35 Minutes	Cassette Tapes for General Class License study - 6 Tapes  Cassette Tapes for Morse Code Practice - 2 Tapes  CD's for Morse Code Practice - 2 CD's

Members are encouraged to contact the club librarian, Ray - KD8DPZ, to reserve any of the materials they wish to borrow. Donations of new materials to the club library is also appreciated.

## Brad - N8BAM has become a SK

It is with much sadness that we pass on the news that MCRC member Brad Modi - N8BAM has become a silent key at the age of 69.

Besides being a regular on the Tuesday night net, he also was active in NTS traffic handling. 73 Brad.





## Dayton Bus Trip

*Avoid The Fuss, Ride The Bus*



The ARROW Communication Association is hosting its annual charter bus ride to Dayton for Hamvention. This is a great way to have a day trip at Hamvention without any of the headaches of driving and lodging! Get dropped off and picked up right at the front gate. Plenty of room in the belly of the bus for hauling home all the junk ... er I mean treasures you buy at the Hamvention.

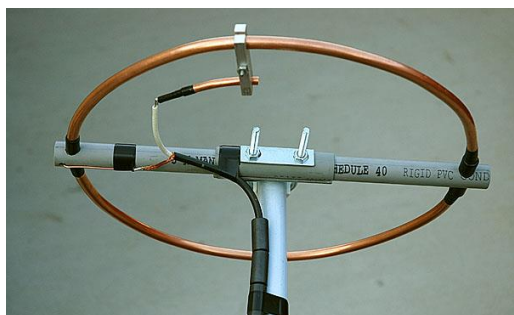
Arrow group is looking for registrations by March 10, 2024. They are also offering table space in the flea market with a bus ticket if you have anything to sell. Bus ticket does **not** include admission to Hamvention.

## Code Practice on the Wyandotte Repeater

Every Tuesday night, 15 minutes before the Motor City Radio Club Two Meter Net,

Bob K8HV provides CW Code Practice sessions. So many in the club are saying this has been a great way to learn the code. Others who already know it, but don't use it as frequently as they would like, are also saying how nice it is to refresh their skills in remembering code.

So tune in every Tuesday night at 2045 hours and give it a listen. Special thanks from the club to Bob for doing this.



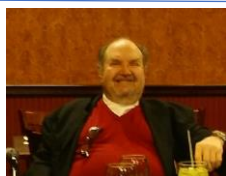
The Motor City Radio Club Two Meter Net meets each Tuesday evening at 9pm on 147.84/147.24 MHz, the "Wyandotte Repeater". The purpose of the net is to provide a regular opportunity for amateur radio operators to share news of interest. Membership in the Motor City Radio Club is not necessary for participation. All licensed radio amateur operators are welcome to check in to the net.

## MCRC board meeting.

MCRC Board meets on the third Wednesday of each month at Foggia's Pizzeria.

Upstairs inside the Zodiac Racquet Club at 14795 Dix Toledo Rd in Southgate.

This month's board meeting is on March 20th starting at 7pm. Everyone is welcome to attend all board meetings.



Please buy 50/50 tickets at every club meeting. This is what pays for the hall rental. Ralph KA8KGW will gladly take your money. He only ask that you have exact change if possible.



## MOTOR CITY RADIO CLUB VE EXAMS

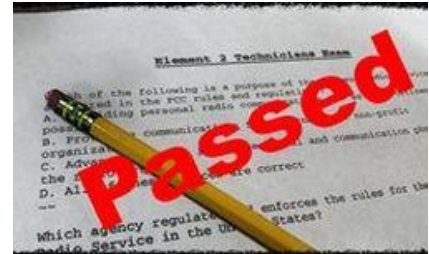
Our next exam will take place on Saturday, March 9, 2024 at the First United Methodist Church, 72 Oak St. Wyandotte, MI 48192. Start time is 10:00AM. Please register at [www.w8mrm.net](http://www.w8mrm.net). Instructions on how to obtain an FRN number can also be found there or at: <https://apps.fcc.gov/cores>.

All payments are CASH only! Credit cards no longer accepted. Please use entrance on Oak Street. There will be a sign on the door that

says: "Amateur Radio Exams".

Items to bring with you:

1. \$15.00 exam fee. Cash only, exact amount preferred.
2. Number 2 Pencil and a black ink pen.
3. A copy of your current FCC license (if you have one)
4. Two pieces of Identification (at least one photo)
5. Your FRN Number.



If this is an upgrade, your new license will arrive via email with a link to a PDF copy of your license.

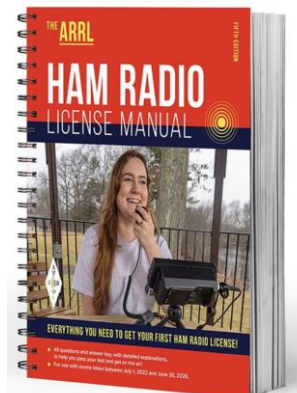
If you are obtaining your first license, the email will contain a link to an FCC page where you have to pay the new \$35 application fee that went into effect on April 19th. The link will have payment instructions for each qualifying candidate. The candidate will have 10 calendar days, from the date of the application file number being issued, to pay. After the fee is paid, and the FCC has processed an application, examinees will receive a second email from the FCC with a link to their official license or, in very rare instances, an explanation for why the application was dismissed or denied. The link will be valid for 30 days.

Woody Kirkman N8MWQ  
VE Liaison

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## Learning Materials from the ARRL at a Discount

Club Education Coordinator Bob K8HV can get educational materials from the league at a deep discount compared to what the ARRL charges. Anyone interested in license manuals, study guides, technical books, Q&A manuals, anything like that? Contact Bob at [rbtlaw@att.net](mailto:rbtlaw@att.net) or give him a shout during the Tuesday night net.



# Senators Roger Wicker and Richard Blumenthal Introduce S.3690 to Eliminate Private Land Use Restrictions on Amateur Radio

ARRL News 02/14/2024

On January 30, 2024, US Senators Roger Wicker (MS) and Richard Blumenthal (CT) introduced [S.3690](#), the Senate companion bill to H.R.4006, [introduced last June](#). Both bills reflect the Congressional campaign efforts by [ARRL The National Association for Amateur Radio®](#) to eliminate homeowner association land use restrictions that prohibit, restrict, or impair the ability of an Amateur Radio Operator to install and operate amateur station antennas on residential properties they own.

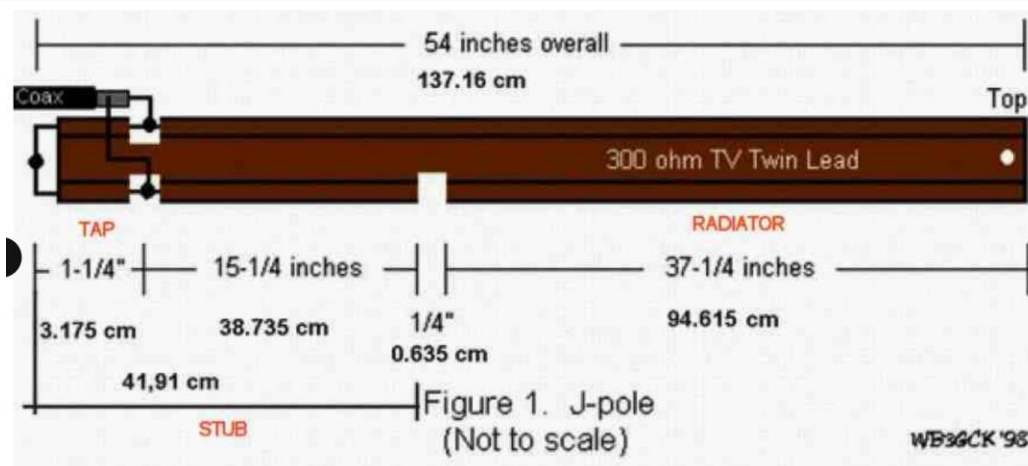
Amateur Radio Operators repeatedly are relied upon to provide essential communications when disaster strikes, but their ability to do so is being impaired by the exponential growth of residential private land use restrictions that hinder their ability to establish stations in their homes with which to train and provide emergency communications when called upon.

In announcing the introduction of S.3690, Senator Wicker said: “Because communication during natural disasters is often hindered, we should be making every attempt to give folks more options. Reliable access can make the difference between life and death in an emergency. Our legislation removes roadblocks for amateur radio operators looking to help their friends, families, and neighbors.”



In a similar announcement, Senator Blumenthal stated: “Our measure will help clarify the rules so ham radio enthusiasts can successfully continue their communications. In the face of emergency or crisis, they help provide vital, life-saving information that allow listeners to properly and safely respond, but prohibitive home association rules and confusing approval processes for installing antennas have been an unnecessary impediment. The Amateur Radio Emergency Preparedness Act resolves these bottlenecks and ensures that radio operators can function successfully.”

ARRL President Rick Roderick, K5UR, and Director John Robert Stratton, N5AUS, Chair of the ARRL’s Government Affairs Committee, both extended on behalf of ARRL, its Members, and the Amateur Radio community their thanks and appreciation for the leadership of Senator Wicker and Senator Blumenthal in their continuing efforts to support and protect the rights of all Amateur Radio Operators.



A two meter J-pole antenna made from TV twin lead. Simple to make. Dimensions shown are for using in open air. Do not put this antenna inside a PVC tube because it will affect the velocity factor, and no longer be resonant.

Thanks to Craig LaBarge, WB3GCK for the drawing.





# TOLEDO MOBILE RADIO ASSOCIATION HAMFEST 2024



## TMRA 66<sup>th</sup> Hamfest - Radios/Computers/Electronics

**SUNDAY March 17<sup>th</sup> 2024 8:00 am - 2:00 pm**

**Student Health and Activity Center (SHAC)**

Owens Community College 30335 Oregon Road, Perrysburg, OH 43551  
GPS N 41° 35.575' W 83° 32.051' Talk-in: 147.27+ (PL 103.5)

**On Campus Parking is Free and Close to the Hamfest**

This ARRL-approved Huge Hamfest is Indoors and Professional Security is Provided.

All admission tickets are \$10.00. (Children 12 years old and under – **FREE**)  
OCC students, faculty and staff – **FREE** admission with valid OCC ID

Tables are \$20.00 (floor) \$25.00 (wall) - free electric hook-up

**TABLE APPLICATION FORMS ARE DOWNLOADABLE FROM OUR WEB SITE**

[www.w8hhf.org](http://www.w8hhf.org)

or

SEND REQUEST FOR TABLE APPLICATION FORM TO [wd8mxr@gmail.com](mailto:wd8mxr@gmail.com)

**VE TESTING at 9:00am (Registration at 8:30am)**

(If attending **only** for VE testing – purchase of an admission ticket is **not** required)

**Pass your Technician Exam at the Hamfest – WELCOME TO AMATEUR RADIO !**

*Use your CSCE for complimentary Hamfest admission*

### FORUMS

*Topics to be announced*

### CASH & DOOR PRIZE DRAWINGS

**\$50.00 cash at 9:00, 9:30, 10:00, 10:30, 11:00, 11:30, and NOON (must be present to win)**

### DOOR PRIZES INCLUDE

Noon drawing for a DX Engineering \$100.00 gift certificate (**must be present to win**)

ARRL coupon certificates

*Others: to be announced*

### FOOD SERVICE

*Breakfast & Lunch: Sweet Nate's Coffee*

## Saturday April 20<sup>th</sup> The Michigan QSO Party



(MiQP) is an operating event held annually in Michigan. Amateurs inside the target area (in this case Michigan) earn points towards their QSO party score for making contacts with other amateurs located anywhere, while amateurs outside of the target area get QSO party points only for contacting amateurs inside the target area.

It's a great opportunity to hone your HF operating skills and get ready for this year's Field Day. MiQP can provide concentrated dose of operating that will crack the rust off your CW ability or brush up on your phone operating techniques, skills that you can use in other on-the-air activities.

Plan now to participate in the 2020 MiQP Michigan QSO Party on April 20<sup>th</sup>.

## MCRC Officers

President

Tony Griffin - KE8NSU

[president@w8mrm.net](mailto:president@w8mrm.net)

Vice President - Programs

Bob Lawrence K8HV

[vicepresident@w8mrm.net](mailto:vicepresident@w8mrm.net)

Secretary

Bryan Shiroda - KC8ZIQ

[secretary@w8mrm.net](mailto:secretary@w8mrm.net)

Treasurer

Craig Dunn N2WDX

[treasurer@w8mrm.net](mailto:treasurer@w8mrm.net)

Custodian

John Roberts N8KAM

Trustee(s)

Jim Baksa KD8HFX for W8MRM

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### *Coming Events:*

**March 8th General Membership meeting 7pm** Copeland Center 2306 4th. St, Wyandotte.  
Program: Amateur Radio Public Service Corps.

**March 9th Ham Radio Exam at 10am.** First United Methodist Church  
72 Oak Street in Wyandotte. Please register at [www.w8mrm.net](http://www.w8mrm.net) for the exam.

**March 20th Board Meeting at 7pm.** Foggia's Pizzeria. 14795 Dix Toledo Rd, Southgate.  
Inside the Zodiac Racquet Club. Everyone is welcome to attend all board meetings.

**April 12<sup>th</sup> General Membership meeting 7pm** Copeland Center 2306 4th. St, Wyandotte.  
Program: Capital Funding and Budget.