

I/MASSILLON AMATEUR RADIO CLUB

MARC- Serving the local community since 1927

Volume 70 Issue 2

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FEEDBACK

Winter FD at the new W8NP Club Station!



By Don Rankl, N8IVJ

Amateur Radio Alive & Thriving In STARK County!

Annual Winter Field Day Event - Brought out the Who hasn't heard or said, BEST!

February 2025

All 3 amateur radio clubs of County Stark (Alliance Amateur Radio Club, Canton Amateur Radio Club - W8AL & The Massillon Amateur Radio Club - W8NP) put in their best efforts during this "Winter weekend's Field Day"!"

Each club participated and accomplished a common goal of improvement, outreach and enjoyment of one of the best and most excitina hobbies on the planet.

While each organization has its very own unique and cherished style and history, there is no doubt that when the chips are down, that amateurs in all of Stark County will always work together for the betterment of our communities in every way possible. Winter Field Day is the perfect display of this situation.

"Hey, I just worked Canton"

(or Alliance or Massillon) while We appreciate everyone who Center, 127 Cherry Rd. NE, downing your 10th cup of chose to spend a part of their Massillon, OH 44646. coffee charred middle of the night?

Each and every one of us can the back! celebrate being a part of this very special "club" of some of Ryan was this year's WFD the finest and brightest folks.

Folks who we are honored to call FRIENDS!



Randy Phelps, KD8JN just "killing it " on 40!

MARC did it's part to join the party this weekend. There were so many to thank for making this a successful event for our organization. We are beyond humbled to have participated in Winter Field Day from our brand new location!

Quite a few visitors passed thru our doors, and many new connections were made. Two new students were added to the MARC Technician class February. comina up in bringing the total to 12!

16 different operators picked up a microphone or pounded away on a CW key during WFD. The laughter of nearly a dozen young children and teens filled the hallways!

during the weekend with MARC. Make sure to give Ryan Brown There will be up to 8 classes, (KE8SDQ) an extra pat on depending on progress. The

Chairman, Job Well Done!



Today, 2/5, **Starts Technician** License Class

The Massillon Amateur Radio Club will offer a *Ham Radio* introductory level training course for those wanting to aet their entry (Technician) FCC Amateur Radio License.

Classes will start Wednesday February 5, 2025, and will be held at the For the second year in a row

class is free.

The ARRL Ham Radio License Manual, 5th Edition will be used for the classes. The manuals will be available at the first session for the discounted price of \$20.

If you are interested in becoming part of this great hobby, contact Fred Reed REEDFL@SSSNET.COM or at 330-830-0250. lt recommended to enroll early so we can order the proper number of manuals.

Below- It's Fred, KD8SMO!



Appreciation Banquet Big Success!

on By Gerry Sorensen, KG8RRY

St. Paul Church Educational our club gathered at The

legends of Massillon several clubhouse for our Appreciation Banquet. Even addition though it was a typical Ohio seafood was to this year's January night it was warm and offerings. inviting inside.



The annual event has been a MARC tradition for vears. although our leadership has changed it's emphasis just a bit. As our President Don Rankl, N8IVJ, has pointed out our successes as a club are based more on group, as opposed to individual, effort.



This year's event was again scripted by **MARC** Vice-President Ryan Brown. KE8SDQ. The menu featured beef, pork, and, as a welcome surprise, seafood. I overheard

club members Annual discussing what nice а the choice of



Brent Gribble, N8BAG. former club trustee said, "I Note- MARC is an think it was great! I don't think the (individual) awards are really necessary, and video presentation was outstanding!" Brent is seen above swearing in our 2025 Club Officers and new Trustee.

Current ARRL Hamfests!



04/05/2025 - Cuyahoga Falls **Amateur Radio Club 69th Hamfest**

Location: Cuyahoga Falls, OH

Type: ARRL Hamfest

Sponsor: Cuyahoga Falls Amateur Radio

Club, Inc.

Website https://www.cfarc-hamfest.org

Learn More

ARRL Special Service Club

ARRL Special the Service Club.

> We are a club that goes above and beyond for our community.

Special Service Clubs are the leaders in the amateur radio community and provide classes, training, public outreach.

We pursue technical projects and community operating events. A New **Chapter for MARC**



of the club shack, to a record number of students attending our Technician License Class, members have shown us their very best in just the first few weeks of the year.

Don't miss a second of the excitement. There's never a bad time to pop-in for a visit to one of our regular events or activities.

We hope you find something new to enhance amateur radio in your life each time. We look forward to seeing you.

73 Don Rankl – N8IVJ

MARC's own John Crilly, W8TD, has been away teaching classes on cruises, as is his habit in the winter months!



MARC - Locked & Loaded for 2025

There are so many great things happening in the life of MARC at the moment, we can't keep track of it all.

Ya'll just keep showing up. Showing up to help, showing up to learn, showing up to teach, and showing up to enjoy the awesome journey MARC has embarked upon in 2025.

From a tremendous showing at the annual Appreciation Dinner to the ongoing transformation





Next Club Meeting

The February club meeting is the Appreciation Banquet and will be held Saturday, Fed 7th, 2025 at 7:30pm.

All are invited!

The World of FT-8

Dan Wolfe,

KN4FYR

W8NP HQ

St. Paul's Ed Center

Doors Open At 6:45 pm

Everyone is invited, even if you have no amateur radio license. Bring a friend!

127 Cherry NE

Massillon, OH 44646

See you there!

Alliance Talk Group 313989 Time slot 1.

West Stark Info Net

Statewide DMR Net- Held on Monday evenings at 8:30 pm using the statewide Talk Group 3139.

NET Daily at 7pm- 50.4 MHz, AM Mode/ Horizontal Polarization

by Evan, KE8IDH, Net Mgr.

Any new operators wanting to give being a net controller a try please contact Evan Rankl KE8IDH 330-880-6764.

We are always seeking new Net controllers even if you haven't done it before or want to learn.

You can do it as little or as much as you want without being on a permanent list.



Stark County ARES Net -

Held on Tuesday evenings at 7:00 pm on the N8ATZ repeater 147.120 MHz with a pl of 110.9

Alliance Amateur Radio Club Net - Held on Thursday evenings at 9 pm on the W8LKY Repeater 145.370 MHz with a pl of 110.9

West Stark Info Net- Held every Friday evening on the W8NP Repeater 147.180 MHz with a pl of 110.9 except the first Friday of the month which is club meeting night for the Massillon Amateur Radio Club.

Massillon 80 Meter CW Net-Held Sundays evenings at 8:00 pm on 3.5995 MHz

If you are outside the range of our MARC repeater you can listen to our signal on Broadcastify.

Broadca

FrankenGonset!

by Fred Reed, KD8SMO

Hams are unusual people, but we all know that. Sometimes they can get off on a tangent, and do things that the ordinary person might think odd.

A few months ago, one of us came across an old Gonset G-50 that had been seriously ravaged. The main transformer was shorted, and the main transmit switch was literally gone, nothing but bare wires hanging out.

Several parts were missing, nothing but the bare ends of component leads that had been cut off. The old Ham looked it over, and felt remorse that such an iconic old rig was looking at the junk pile.

"That old rig has lived for 60 years, through thick and thin, it doesn't deserve to die in a junk pile", thought the old Ham. "I'll make it live again."

There were so many parts missing, and so many things

MARC Club Net Manager-Evan Rankl, KE8IDH

Stark County DMR Net- Held on Monday evenings at 7:30 pm on the W8NP repeaters located in Massillon and



that needed patched together want to get on the air and talk *history* that the Frankenstein monster to other hams. came to mind. A thing patched interested in contesting, to together from lots of unrelated see Frankenstein Gonset came to how many different countries soon shortened FrankenGonset. Now the pile them like to build and repair of parts had a name.

back to its original condition light up and come to life is went out the window. Being a their reward. Nerd, as well as a Ham, the hobby, with room for all kinds aim was just to make it work.

After almost a month and a to hear somebody respond. half of changing circuits. adding never dreamed of, adding fans from going to the dump. to keep it cool and burning up a sizable quantity of solder, it came time to see if it was alive. Unlike the Frankenstein. there was no lightning storm to supply the life giving energy, it would have to do just to plug it into the wall socket and see what happens.

There was some concern that there might be lightning of a sort if something shorted out. After a few false starts, the little tubes began to glow, the speaker started to buzz, and it was ALIVE!

The 6 meter AM daily net on 50.4 was tuned in. and everyone reported that FrankenGonset sounded pretty good.

What's the point of this story?

Well, Ham Radio is a lot of different things to different people. Some of them just

Some are presence how manv Thus the moniker contacts they can make, or to they can log. And some of things.

Any thoughts of trying to put it The sight of seeing an old rig It's a great of people fascinated with sending radio waves out, just

things that Gonset Or maybe save an old rig



Photos by Fred Reed. KD8SMO

Regarding the 6 meter net-

You are invited to join us. Modern radios are just as acceptable as vintage tube gear.

You will find a welcoming, friendly atmosphere. All skill levels are appreciated and you will be taught radio theory, skills

just vour



CW Net

The MRN CW Net can be heard at 8pm Sunday evenings at 3.599.5 MHz.

Net Control is W8AU. This is a slow speed net and all are invited!



VE Testing Sessions

Our VE Testing group met on January 11th. Sadly, Mother Nature didn't cooperate and we were sent snow and bitterly cold temperatures.

So we will re-group and give it another try in March on the 8th. Spread the word!

Here are our 2025 dates:

March 8 May 10 July 12 September 13

All testing sessions will be held at St. Paul's Lutheran Church, 127 Cherry Rd NE, Massillon, OH, 44646.

Doors open at 8:30am and testing gets underway at 9.

73, Rex, NX8G

Rex is the Stark County VE coordinator. If you are interested in testing he may be reached at:: nx8g.01@gmail.com.



Exam Requirements

All Candidates

- The exam fee is \$15.00 cash or check made payable to ARRL-VEC.
- If the candidate is under 18 years old the exam fee is \$5.00.

- A photo ID is required to be shown.
- An email address is required.

First time applicants

- Must obtain an FCC Registration Number (FRN) before taking exam
- An FRN can be obtained at https://apps.fcc.gov/co-res/
- Upon receipt of the successful application the FCC will bill the applicant \$35.00 via email. The applicant will have 10 calendar days to pay the fee. This does not apply to upgrades.

If the applicant is under 18 years of age the ARRL will reimburse the \$35.00 after receipt of a completed reimbursement form.

Candidates testing for an upgrade must provide a copy of your existing license to be turned in with your application

January Meeting Minutes No business meeting was held in January, Instead we all got together at The Legends of Massillon for our annual Club Appreciation Day.

Respectfully submitted, -Gerald Sorensen, KG8RRY



Will A Ham Radio Signal Bounced off Mars One Day?



Ham Radio Tech: Inexpensive Project Enclosures

By Ward Silver, NOAX

No matter what kind of operating you do, sooner or later you'll need a "gadget" that isn't readily available commercially.

Maybe you'll need a special This is true for more than just ("New work" means that it's switch or an interface between metal boxes! connector types or to a radio accessory port. After making If you can use something blank cover that I drilled out one or two of these, you might made and sold by the zillion, for four push button switches. develop taste of homebrewing electronics variety! Many hams accept a different shape or conductor cable. Total cost of started small and wound up can modify a commercial all the metal parts was less making equipment that rivals product. For example, electric than \$5. (Image/Ward Silver, professional quality.

though, is that nice-looking insulators! metal enclosures are surprisingly expensive. Even My favorite source of project connections. The boxes are small boxes can cost as much enclosures is products made inexpensive so if you make a

To keep the cost of building switch boxes. You can see very easily and cheaply. reasonable, I've learned to several examples in the Ganged boxes can be joined make use of less-expensive photos below. The boxes are together to materials to make my own, sturdy and cheap, and they boxes. There are quite a particularly when something for the first time or They make good shields boxes available online or in just trying out an idea. Low- since they are metal, which is the electrical section of your materials cost prototyping and alternatives—you can then use everywhere. the money saved on a better enclosure for the final version. Or might find the inexpensive alternative to be a fine permanent solution.

Here are some tips and tricks that have served me well.

Basic Boxes

One of your most useful discoveries will be that specialty products sold for This photo is a great example There are a large number of electronics are often quite a bit in which I used an electrical clamps and parts that mount more expensive than a very box to make a message in knockouts for different similar product made and sold control box for a voice keyer. purposes. as consumer and commodity The box is a single-gang, products.

for you'll save a lot of money, A 3/8-inch conduit clamp the especially if you are willing to secures the shielded multifence insulators and PVC NØAX) pipe, or conduit fittings, are One thing you'll learn quickly, much cheaper than ceramic Most of these boxes have

as the electronics inside them. for electrical wiring parts, mistake or decide to change building are galvanized or plated variety of these encourage extra important in the ham local hardware stores. trying out station where RF is present



four-inch-long. 2-1/8-inch- Rubber

intended for construction.) The top is a

convenient holes for grounding and bonding especially the junction and a layout, you can start over

> Electrical boxes have round "knockouts" for attaching conduit and cable clamps. There are three common specified as "trade sizes sizes" of 1/2, 3/4, and 1 inch. They mount in the body of the box with a small tab. Push on the knockout with screwdriver to bend the tab. then flex it back and forth to break the knockout free. Threaded conduit clamps mount in the resulting hole.

grommets deep, new work utility box, available to avoid chafing a cable.

The conduit clamp is threaded and mounts on the box with a If you are running coax or of project materials is surplus, large nut similar to a toothed other shielded cable through overstock, lock washer. Tighten it by the clamp, create a pigtail equipment. Popular online tapping on the nut's serrations from the shield braid or wire auction websites are a good screwdriver holding the clamp with pliers. around one of the clamp other The clamp is flat-sided to screws. This allows you to sources capture electrical cable and is make a good connection to and free "buy nothing" sites tightened with screws. The the metal box. clamp will also capture the flat side that is present on most Another nice thing about "service pulls," threaded RF connectors.



(Image/Ward Silver, NØAX)



(Image/Ward Silver, NØAX)

Smaller connectors, such as phono or phone plugs, will probably require a drilled hole or you can enlarge a predrilled hole. Another option is to use a pair of large flat washers to both fill the hole

and hold threaded Surplus and Used Enclosures а connector.

electrical boxes is that they equipment are heavier than a similarly- designated as when cables attached or if controls or with friends! switches mounted on them or plastic stick-on feet work markets, and garage sales clean the surface first since and be there may lubricating residue left from Equipment the manufacturing process.

A caveat about using plastic weatherproof, too. enclosures—unshielded enclosures for RF projects Data and cable TV service noise to get into feed lines. surplus and usually have a refers to unwanted signal picked up on entry. They are mostly plastic the outside of the shield.) and unshielded but make Noise currents flow to the end good protective enclosures of shield on the outside and for cable connections and then enter the cable as a smaller devices. differential-mode signal.

lf you can't shield currents.

An often-overlooked source while that is long enough to wrap place to find enclosures and materials. Local include Craigslist organized by location. You will also be able to find which are devices and past their sized aluminum or plastic service life. You may have to box. This helps keep them in buy several to get the best are price, so share the savings

> are used frequently. Rubber Along with hamfests, flea as well on steel as on often include electronic gear aluminum, but be sure to that can be stripped for parts hardware, some enclosure left to be reused. cabinets for the outdoor like use. fiberglass bought box surplus, usually are

> > common-mode boxes are widely available as any basic weather-resistant cable

Obsolete instruments and the equipment are usually enclosure, consider feed line constructed with solid, highchokes from ferrite cores on quality cabinets that cost a lot the cables to block the noise new. Panels and other metal parts can be cleaned in the

dishwasher. this type of equipment is an stamp-sized to large cookie are all around—not only for education in how electronic and chip tins. The metal is enclosures, but for hardware devices are assembled and quite thin, so drill with caution and accessories, too. Using provides а lot hardware.

great project for beginning such as this Instructables and flexible homebrewer. electronics and ham radio collection. hobbyists to build expertise (and a junk box)!

Holes in used enclosures can Even tuna fish cans get into be filled with metal "hole plugs" the act, like the legendary that snap in place. Large holes "Tuna-Tin can be covered with a piece of transmitter. You can read all unetched PC board material or about this Doug DeMaw, scrap sheet metal to maintain W1CER, creation from 1976 shieldina. Older enclosures. fiberglass or plastic, should be projects, too. painted with automotive primer to protect and seal the surface. (Image/DIYRadio)

Food and Novelty Containers

community is to build gadgets of containers and boxes that in the snap-together tins that can be used for electronics. hold Altoid mints. After all, they Metal toolboxes make very say, if the mints themselves nice were "curiously strong," then electronics, why not the signal from a portable or mobile radios, and transmitter built in the same can even serve as a ground Greetings to Everyone: container?

There are even prototyping kits bonus. Larger coolers can based on the tins such as this carry an entire station, may product from QRPme.com.

Don't expect heavy-duty use from these lightweight, nearly Although they aren't often disposable items. They are used for often painted and need to be boxes, compartmented trays, scraped or sanded to bare and storage boxes come in metal around connectors and very handy. any overlap joints you expect to act as shielding. There are a I hope this article gives you

Not only candy tins pressed into ham service. 2" 40 outdoor at DIYRadio. Cans make Editor's Note- When I first particularly great sub-enclosures in larger embraced ham radio I read

Hobbies and Crafts

Finally, hobby, outdoor, and A popular activity in the QRP craft stores sell a wide variety ham enclosures particularly 2024plane for a mag-mount whip! They are often lockable as a 2024 has been a year of have wheels, and are almost always water-resistant.

> projects. tackle

Disassembling variety of sizes from postage the idea that useful materials of useful or use a punch to avoid inexpensive materials lowers tearing the metal. People the "barrier to entry" for have come up with all kinds building your own gear and Taking this stuff apart is a of projects for candy tins, will make you a more capable

Handiham Program

article about the Handihams program. Coming from a commercial radio background I saw a need my talents could help fill-- reading QST and other radio articles for special need ham operators.

for Here is what we did in

substantial growth for the Handiham Program, marked bγ significant accomplishments across various aspects of the Program. The increase in new members demonstrates the expanding reach and appeal of the Program, highlighting its ability provide valuable resources

and support to people with In February, we kicked off the In April, we wrapped up both disabilities participating in the second semester of the virtual classes, marking a amateur radio hobby. The virtual Advanced Morse Code successful addition of more virtual classes class. where we worked learning and growth. By May. helped accessibility for allowing them to participate making on-air code contacts. Hamvention, from anywhere, while larger This class was an excellent debuted a new display that class sizes reflect growing opportunity for our students significantly boosted traffic to for opportunities in the amateur their proficiency in Morse early allowed us to meet with radio hobby.

Handiham Radio Club. coupled with a noticeable rise may seem early to be teach local blind students in daily net activity indicates thinking about a September using that members are actively event, we know how quickly Technician Class curriculum. engaging with one another and time passes, and getting a We also had the wonderful strengthening their skills. This head start ensures everything opportunity to meet with community thriving fostered collaboration. learning, connections among members, welcome Melissa as our new Handiham empowering them to continue Handiham growing their knowledge of Administrative Assistant. Her amateur radio and related addition to the team has Throughout technologies.

We started January with the second semester of the virtual General Class license class. which focused on the new pool of questions that took effect in July 2023. At the same time, we were preparing for another round of elections in Handiham Radio Club. exciting moment to bring fresh leadership and new ideas into the club. Speaking of the club and its growth, we were thrilled to see that membership had already grown significantly, from 71 members in early 2023 to over 100 members by January 2024.

increase closely with students to help the excitement shifted to members, them gain confidence in Xenia, learning to refine their skills and build our booth. Arriving a day working on The surge in activity within the applications for the 2024 Camp, as well as collaborate Radio Camp. While February with HamSci on a plan to has runs smoothly.

> helping as the first point of included Handiham Program.



semester of Ohio, for Dayton where code. Additionally, we began other vendors and test out scholarship new equipment for Radio the Handiham ARDC representatives, who have been deeper In March, we were excited to generous in supporting the Program and Program Radio Camp.

> the summer already made a significant months, we stayed busy with impact, and we are thrilled to applications and finalizing have her on board. Melissa plans for our second hotelbrings enthusiasm to the role, based Radio Camp, which an even busier contact for members and schedule than the previous others who reach out to the year. In early September, campers and volunteers began arriving from all over the US, and we were thrilled to have a larger meeting accommodate space to expanded everyone. The space gave everyone more room to work on projects, troubleshoot, and enjoy time together. The camp offered a wide range of classes, from spotting weather for visually impaired to antenna theory and construction. We were also privileged to host

person and virtual Handiham Club has reached a milestone Radio Club meeting, which of 158 members, and we saw record attendance!

Camp wrapped up, we kicked of off a new virtual Basic Morse

motivated students in this special thank you to our class, both eager to make on- many air

successful completion week. A week after Radio Handiham Camp ended, we began a 30- special is that many of our week Extra Class license class volunteers that dives deep into electronics are also and engineering theory. With dedication, eight enthusiastic students, it's generosity are the backbone been a fun journey so far!

added a virtual Technician in 2024 would be achievable. Class in mid-October. This You play a crucial role in 24week course is currently in helping our members thrive, its 7th week, with eleven and we are deeply grateful for students, and one is already everything you do. Thank you planning to take her exam for before the end of the year— commitment to empowering excited to get on the air!



November proved to be an especially busy month with classes, 73, three concurrent marking the most classes we have ever run simultaneously. Lucinda AB8WF And now, as we close out

second combined in- 2024, the Handiham Radio have welcomed 65 first-time Handiham Program members Just five days after Radio this year alone! We are proud Visit the MARC website everything we've at: accomplished together!

Code class. We had two I would like to extend a volunteers and supporters who make all our the FEEDBACK please services for QSOs, and we celebrated its Program members possible. club@w8np.net last Part of what makes the Program and supporters members. Your time. and of our success. Without your unwavering support, none of Given the demand, we also the progress we have made your others and helping us build an inclusive, vibrant ham radio community.

> Overall, 2024 has been a year of achievement and expansion for the Handiham setting a Program. solid continued foundation for success in the future. From all of us, Merry Christmas and Happy New Year!

https://www.W8NP.net

If you have any news for Handiham email us at:

> **Massillon Amateur** Radio Club **PO Box 73** Massillon, OH 44648 www.W8NP.net

