

 <p>www.arrl.org</p>	 <p style="text-align: center;">St. Paul Radio Club Ground Wave</p> <p style="text-align: center;"><i>Dan Meyer, NØKFB, Editor</i> <i>Dale Maroushek, NØPEY, Publisher</i> http://www.stpaulradioclub.org/</p>	<p style="text-align: center;">KØAGF</p> <p style="text-align: center;">Club Repeaters: 145.310 MHz, 442.450 MHz Both use a 114.8 Hz tone</p> <p style="text-align: center;">PO Box 9375 North St. Paul, MN 55109</p>
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Devoted to the future of Amateur Radio as a hobby and public necessity.

SPRC Nets: Wednesday 7:30 PM 28.310 MHz USB; 8:30 PM 145.310 MHz FM 114.8 tone

NEWS AND NOTES FOR April 2024	Volume 84, Issue 04
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NEXT MEETING: FRIDAY APRIL 5th, 2024

- 6:00 PM Board Meeting (all are welcome to attend and observe)
- 7:00 PM Membership meeting, refreshments and socializing
- 7:30 PM Membership Meeting Followed by Program

Entrance to CDH for our meeting

Meetings are held at Cretin-Derham Hall High School located at the intersection of Hamline and Randolph in St. Paul. Park in the lot off Hamline near the athletic field.

Enter door 21 at the Ryan STEM Center addition. The meeting room is down the hallway on the right (the Commons). Door 21 will lock at 7:45; if you arrive after that, please call 612-201-0818 to be let in. Br. Bob.

Program

Our meetings are hybrid meetings. That means there will be an in-person meeting at Cretin-Derham Hall (CDH) and a meeting on Zoom for those unable to attend in person. Zoom meeting information can be found at the end of the newsletter.

The speaker at our April meeting will be Pat Wintheiser W0OPW, and the program title is "Tips and Techniques for Antenna Modeling using the Ne2Go Antenna Program".

Pat was first licensed as KNØOIW in St Peter Mn, and graduated from Mankato State college with degrees in Math and physics. Pat began and ended his career as a computer programmer at Boeing Aircraft corp in Seattle Wa. After retirement in 1999, Pat took on the challenge of creating a simpler way of doing antenna modeling, which resulted in the Nec2Go Antenna Modeling Program. Pat resides near Brainerd Mn on the Crow Wing River, which boasts beautiful tall pine trees to hang antenna wire. topic will be antenna modeling. Please join us Friday April 5th for an interesting program!

Dale's Details

by Dale Maroushek NØPEY

Hello again from winter-spring-winter again. I acknowledge that the weather is changing around the world, but still resist calling it Climate change, as that would indicate a long term result and it is too early to conduce that. Our usual rainy spring hopefully will not produce flooding on our many rivers and streams, damaging our current area.

If you missed the March meeting, and the fabulous program by Bob, N0KLC, never fear because I think we can get Bob back next season for another look at computer technology history. The complex structure of how email works just continues to amaze us and we want to learn more!

Breakfast on the 16th gathered 12 of us, and the conversations just never stopped changing depending on which way you turned your head. If you haven't attended our breakfast, or the MARC one on the first Saturday, you are missing a great time to talk with others and gain some more insight into how hams work.

Midwinter Madness, now spring runoff, is a few days away, and John Hines, N0KLC, has produced the beginning of a new table display for the club. We can all take a look at it there and constructive comments will be accepted along with your continued volunteer support. Added after the fest: I will call the new table display set up an improvement over last season. But we already are planning new things to try. The best part was having eight guys rotating manning the display. Thank you for helping out. Now we need a carry bag for the hardware and handouts, something like a sport bag for bats, about 4 feet long. The fest itself was very well attended and had many old rigs for sale. Much improved from prior years.

Another event to look forward to from Brian N0BM, for veterans and others:

We've scheduled a special event station, W2W for June 6th, commemorating the 80th anniversary of D-Day. We are planning to operate from Cottage Grove Fire Station #3, located in Old Cottage Grove.

It'll be a one transmitter effort, with time split between CW, SSB and, potentially, FT8. The city allows SEMARC to store equipment at the station and operate from it as we choose. We've held winter and summer field day ops from that site, as well as other special events.

We have a bunch of vets in SEMARC, too, and I bet we will find some good juju if St. Paul members either work us on the air or drop by.

I'll give you an update after our meeting next week with some more details.

BTW, we have a nice QSL card on the way, SASE for folks who work us.

Sound like something to do before Field Day. Contact Brian, N0BM@arrl.net for info.

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The banquet plans are in high gear and Jay awaits your registrations to attend. The fish and steak are above average. I have never had the chicken, but heard it is just as good. Be sure to let Jay know if you are attending.

Moving on to Okinawa, I can't really come up with anything suitable for publication, but tune in at FD for the facts as I lived them. So we move on. Military placement is complicated. The army paid me for a flight to Baltimore/DC, but I could spend the money as I saw fit. So I landed in CA and took a flight to SeaTac and was picked up by my sister from Roseburg, OR, where she was a Professor. We and her cats spent a week together and then I flew back home to Hastings My flight came in at 3 am, and I had arranged for my former Prom date to pick me up.

Amazingly, she was there, and we arrived to my home about 0830 to my mother's great relief but only another step in my army life.

Tooled around town and visited with friends for another week or so. Found out what takes the FBI so long to do that security clearance work. I had to furnish them with 5 non-related people to talk to on the form. They in turn asked each of them for 4 more people. Back then I guess at least 20 people in town thought I was good enough to do the job, whatever it was because that hadn't been figured out yet.

Bought the car from my folks and drove the big Pontiac Catalina 389 out to Ft. Meade and checked in. Found some old friends from school or Nam or Oki and made a few new ones too. We found an interesting but strange thing about who got sent to language school. Supposedly, something in those early tests gave indication of one's ability to learn a new language. That's fine, but no one checked really after that. Now the greatest things about being sent to language school right out of Basic training was First, the school is in Monterey CA and second, your security clearance was finished while you learned so you didn't spend those months on Casual status doing labor. My bunkmate was full Italian right out of New York City. They taught him Swahili, and sent him to Nam. Next bunk had a Massachusetts Puritan whose family never left the shores, they taught him Czechoslovakian and sent him to Nam. His bunkmate was full Orthodox Greek from Philly, taught him Chinese and sent him to Nam. Not a great return on investment for our tax dollars.

Next month I'll end this up with the last five exciting months at Ft. Meade, MD working again at NSA along with a handful of people from Oki that left ahead of me.

It's been a long day so a short nap before the Insomniacs Net at midnight with Pete on the 85.

Dale Maroushek, NOPEY 73

Ramblings from the VP's Work Bench by Kevin Welna W5LNA

Well I missed the Radio Club March Monthly Breakfast. Sorry about that, but. I had "gizzard" issues that kept me home for a day or so.....I do miss it when I do not go to the monthly Ham B-Fast and besides that is how I know its time to start on my next Ground Wave submission.

So whats happening? Quite a bit, actually. First off, in Ham Radio, I have started the Hobby ADHA Net. It's it held every Tuesday at 8 PM on the 146.850 (MARA) repeater. So far we have been averaging about 16 check-ins a week. OK fine, it's only been 2 weeks, but I still think that is a good beginning! I am very open to suggestions on content and format. I do want it to be more of a discussion net than just a "check in" net. We shall see how it evolves over time. Please stop by on a Tuesday evening and say hi and tell us what you enjoy doing outside of ham radio of even what you like to do in ham radio. All are welcome and we would like to hear what you are working on and what you are interested in.

I have been quite busy futzing with the QCX radios I built. I did get the replacement parts from QRP Labs so maybe in the near future I will start remaking the QMX 4 Band Radio. In the mean time, I did build an older QCX 40 meter radio that I purchased about 5 years ago. I got it built and on the air but it seemed kind of wimpy, power wise and it seemed to have a few glitches. As I went through the process to tune it up and iron out the glitches, I noticed that the main chip has had many updates since it was purchased. Maybe the glitches have already been fixed! I'll just upgrade the firmware, easy-peasy. Being a cheap idiot, instead of buying an updated pre-programed chip for \$8 plus \$12 for shipping, I spent \$25 getting all the programming boards and cables needed to do it myself , (Yea, Do the math, Kevin !!) Huh, this was mistake 1. I then read through the process on how to update the chip, hooked it all up and proceeded to wreck the radio. Mistake 2. I fried something, but I don't know what. At first I thought; "Well, least no magic smoke escaped"and then I thought; "Hmm, that might have been better because I would be able to see the offending part(s)." Now I need to trouble shoot the radio because I cant see that anything was damaged. What the heck, lets call that mistake 3! Wanna bet that its one of the SMT (Surface Mount Technology) chips???!!! Oh well, my trouble shooting skills need to be exercised as well, so, I guess that might be a positive? Yea, Right! On the upside, maybe I can convince my wife to let me get a soldering rework station or at least a good solder removal station with an electric vacuum pump....Always look on the bright side, right?LOL

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I redesigned the 10 watt power meter\mini dummy load circuit board. I added a 5.1 zener diode to protect the input on the Arduino Nano control board plus I removed the 2 resistors used in the voltage divider and replaced them with a 10k 10 turn trimmer pot. Sent the changes into the board maker and have received my new updated boards. The updated meter\dummy load is up and working! By the way, according to my calculations, you could in fact readjust the potentiometer to have this dummy load measure up to 100 watts. This would require a more robust RF resistor (250 watt) and a larger heat sink and maybe a bigger potentiometer (20k 5 watt?) but I believe it can be done. I may try this this next winter. FYI, I do have a few spare power meter boards in both the original design and the updated design. If you are interested in making a dummy load\power meter, I will give you a board and I will print you an enclosure, but, you must first show me that you have purchased\acquired all the necessary components to complete the project. This is not going to turn out like the Pixi debacle. And yes I am still quite disappointed in the 28 of you that took a board and never built the Pixi.

Another exciting turn in my life, a friend of my wife's called and said she had some old tube radios her grand father used for ham radio and asked if I would like them. I said yes of course! I am now the proud owner of a Heath Kit SB-410 Tx and a Heath Kit SB-301 Rx. I am not sure when they were last used, so I will wait till I have a Variac to slowly power them up and hopefully avoid releasing any magic smoke. This will be a great project for next winter. I am assuming they will probably need re-capping at the very least. Time\smoke will tell.

The other big plus (Sort of?) the SB401 Tx is only set up for a straight key. While I am almost OK with a keyer at say 10 WPM, I truly suck with a straight key. Now I have reason to build a keyer and it just so happens that I have a circuit design for just such an animal with a 4N25 optoisolator! (Thank you Jack Purdum and your book Micro Controller Projects for Amateur Radio) I started designing the board for this a while back and set it aside for other more pressing projects. (See earlier Ground Wave newsletters) This project is now back on and I am looking forward to making this in the semi distant future! Again, If you do not have this book and are interested in building stuff for ham radio, this is a great book to start with!

I'm still trying to make CW contacts via the QCX 20m radio as well as my big radio, but other distractions\hobbies are preventing this from becoming a regular thing. I am hopeful that later this spring and through the summer I can get on the air regularly and improve my CW skills. I still want to do some POTA activations this summer as well. Oh that reminds me, I did also want to build a new solar power system for my POTA set up.....Yeah! Even more to do\build!!

It's never ending!!

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As far as non ham related activities go, I have only made it out one time this winter to help rid the world of the dreaded skeets. Maybe it's my age or maybe its just that I have gotten smarter, but I no longer find it enjoyable standing in the freezing cold and shooting clay pigeons. I can wait till warmer weather to go shoot clays. Instead, I have been going to an indoor (read that as heated.) range in the southern metro and shooting pistol (USPSA \ IPSC). It is quite fun and while I am not very good, I do OK and I really enjoy going out for a bite with fellow shooters afterwards. I really like the combination of shooting and then food and drink. The added camaraderie and friendly digs on your shooting performance is a great community and friendship builder. When summer hits, I am hoping to get back out to the Oakdale Gun Club and continue shooting USPSA over the summer on (I believe.) Thursday evenings. Come out and play and try something new! Both places are very welcoming.

The 3D printers are still running almost non stop. I am still working on the pod and boom glider I am trying to develop\design. After many iterations and redesigns I think it is finally getting there. When not printing up pods etc. I am making enclosures for my projects and a few friends projects. Additionally, I have cranked out a few more model airplane "kits" with the laser cutter for some of my flying friends. To that end, after a bit of research and digging around, I have learned a couple of "tricks" with the slicing software that will allow me to add reinforcements to specific areas on a 3D print. This allows me to pinpoint weak areas where I need to add layers\walls to strengthen my designs\prints without significantly adding weight to the end product!! This is a real game changer for me. What can I say? Simple pleasures for simple minds....HI HI

As you know or may have surmised, I am easily distracted. This caused me to make a right turn in the middle of everything I have been working on and design and build a electric motor force gauge. While there is tons of data on the brushless motors I use in my planes, (Watts consumed, rpm per volt etc.) there is nothing on what kind of actual "pull" the motor\propeller\battery combination will generate when powered up. Plus, it seems to be the consensus of the experts that you basically need a pulling force close to the actual weight of the plane at full power if you want to take off from the ground. Since I have no way of determining this, I figured I would use my digital trigger pull gauge to measure this. Initially, this too is a fail.....It seems that my trigger pull gauge is not sensitive enough to test this. Or my design for the testing fixture is wrong. This "forced" me to order a more sensitive stress gauge. Thanks to Amazon, it should be here soon and I will try again. If this one does not fix the issue, it looks like I can go one step more sensitive if need be, but I am hopeful this will do the trick. Thank god Amazon allows returns! But first, I may call over to the physics department at the U of M and see if I can talk with a professor (Most are actually quite approachable.) for a couple minutes on my design and make sure its valid. Nerd to Nerd as it were.....HI HI

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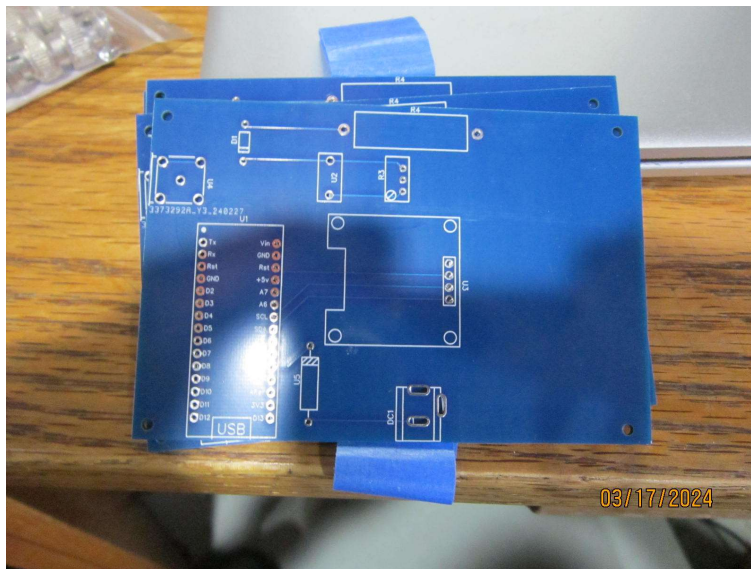
Well I think that wraps up this months installment for the Ground Wave.

As usual, attached are a few pics for your amusement:

The new (old) radios. They are calling to me!!

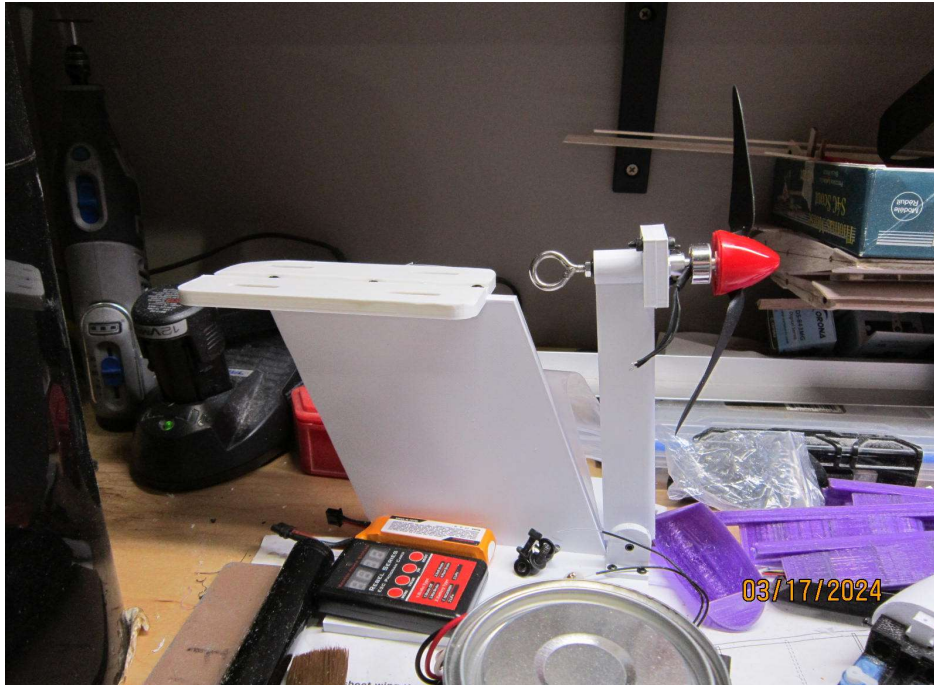


The new dummy load\power meter board. Only 10 components in the whole project. The open space on the right is for attaching a 9V battery holder. This meter uses a Arduino Nano. The sketch\software is already written, tested and works!



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Here is my test stand for brushless motors. It should work, but it don't! LOL The actual stress pull gauge mounts to the flat top area.



Latest pod and boom iteration. The pod is now much smaller and lighter. The wings bottoms are covered in a material called Silkspan. Still needs to be trimmed, the top covering applied and then painted\sealed with nitrate dope. But its getting there!



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Got any pictures of your latest project or passion? Why not send in a couple pics and a few words so we can see what you are up to? Enquiring minds want to know!!

Remember to stop by the Hobby Net!! Tuesday at 8 PM on the 146.850

That's about it for now.

May your signals be strong and your antennas have extra gain.

73 Kevin Welna W5LNA

QST! Grand Forks Hamfest April 20th by Brian Fedje NØGFK

We are a little less than a month away from the Grand Forks Hamfest at Heritage Village, 219 20th Street NE, East Grand Forks, MN. We have a great event planned this year!

Here is the schedule:

8:00am – Hamfest opens

9:00am – Testing

10:00am – Foxhunt

11:00am – Winlink presentation

Noon – ARRL Dakota Division Update from our director Vern Lippert AC0W

If anyone would like to reserve a table at the flea market they can contact me via email NØGFK@arrl.net or give me a call at Phone: (701) 373-5321.

You can find more info on our website <https://www.wa0jxt.org/general-8>

Hope to see you in East Grand Forks April 20th!

Brian A. Fedje NØGFK

Activities Director - Forx Amateur Radio Club

Grand Forks, ND/East Grand Forks, MN www.wa0jxt.org

ARES Assistant Emergency Coordinator - Grand Forks County (ND)

Rotating My Antenna by Scott NØAR

It was a quiet evening as I sat in my living room, tuning into my favorite radio station with my trusty vertical antenna. As I began to rotate the antenna, searching for a clearer signal, I stumbled upon a new station that I had never heard before.

The static crackled and faded away, replaced by a soothing voice speaking in a language I didn't recognize. Intrigued, I turned up the volume and listened more intently. The voice seemed to be recounting tales of far-off lands and ancient civilizations, weaving a mesmerizing narrative that pulled me in.

As I continued to listen, I was struck by the vivid images that began to form in my mind. I saw towering pyramids bathed in golden light, bustling markets filled with exotic fruits and spices, and mysterious rituals being performed under a glittering night sky.

It felt as though I had been transported to a different realm, a world of magic and wonder that existed only in the words of this unknown radio station. The stories were enchanting, filled with wisdom and mystery, captivating me in a way that I had never experienced before.

For hours, I sat there, completely entranced by the tales being spun over the airwaves. It was as if I had stumbled upon a hidden treasure, a source of endless inspiration and imagination that was now within my reach.

And as the night drew to a close, I knew that I had discovered something truly extraordinary. The new station I had found on the radio had opened up a portal to a world beyond my wildest dreams, a world that I could explore simply by rotating my vertical antenna and tuning in. And I was eager to continue this journey into the unknown, captivated by the endless possibilities that lay before me.

Here's a twist to April Fools. What you just read was generated and written by an AI. For this I used the artificial intelligence story program offer by Editpad.com. My suggestion for the story was "Rotating my vertical antenna". There are a couple of sentences that are a bit wacky but for the most part it's a pretty good tale for minimal input. I can see and extra button on the CW memory keyer, "Let AI do the QSO".

Public Service Events By George Power KØGCP

If you have never participated in a public service event, please consider doing so. It helps to keep the participants and public safe, and for you it allows you to practice your amateur radio skills, have a lot of fun and you will meet many like-minded people. A list of some of the public service events in the area this year are listed below.

Type of Event and Dates

Long distance trail running

2024-04-12/13 Zumbro Endurance Run (2 day) <https://www.zumbroendurancerun.com/>

2024-07-06 Afton Trail Run (Rocksteady Running) <https://www.aftontrailrun.com/>

Races (half and full marathons) and Walks

2024-04-27 TCM (Get in Gear) half marathon <https://www.tcmevents.org>

2024-05-18 Waconia Walk-on-Waconia <https://www.runreg.com/12014>

2024-07-27 Richfield Urban Wildland marathon

2024-10-06 TCM - Marathon (Mpls) <https://www.tcmevents.org>

2024-10-?? Belle Plaine half marathon (Don Burgess)

MS Society events (for detail, contact Chris Schultz, KCØYFX, Phone: (320) 217-2692)

2024-05-05 MS Twin Cities Walk (Mpls)

2024-05-11 MS Twin Cities Ride (Mpls)

2024-06-8/9 MS-150 (Willow River, Hugo) (2 days)

2024-07-22/26 MS-RAM (5 days)

Bike rides (one-day)

2024-06-01 Tour de Cure (ADA) ride (Mpls) <https://tour-diabetes.donordrive.com/>

2024-06-01 FreeBike (aka MN Ironman bike ride) (Shakopee)
<https://ironmanbikeride.org/>

2024-07-21 Tour of Saints ride (St. Joseph)
<https://www.bikemn.org/all-events/tour-of-saints/>

2024-08-03 Tour de Tonka (Orono)
<https://www.minnetonkaschools.org/district/mcec/events/tour-de-tonka/>

2024-09-?? River Falls Autumn Trek
<https://www.rivervalleytrails.org/autumn-trek/>

Washington County nuclear drill

(contact Washington Cty ARES,

<https://www.mnwashcoares.net/events>)

2024-05-14 Prairie Island Nuclear drill training

2024-06-25 Prairie Island Nuclear drill (Fed graded)

Road Rally (American Racing Association)

2024-08-23/24 Ojibwe Forests Rally (Park Rapids) (2 days)
<https://www.facebook.com/OjibweForestsRally/>

2024-12-07 Nemadji Forest Rally (Kerrick)
<https://www.facebook.com/nemadjirally/>

Ham Radio Test Session News by VE Coordinator Ron Lundeen KØKWN

We have two examinees signed up for the April test session as of the writing of this column; there is plenty of room for more people so if you are thinking of taking a test, please do not hesitate to sign up now!

In other FCC news, Every licensed Ham should verify their listing with FCC.gov. Beginning soon there may be a fee just for checking your status.

If you can help with ham radio exams, or would like to take an exam, please contact Volunteer Exam coordinator Ronald Lundeen at ronald@lundeen.net or 320-321-2744

Updates by Pete Guldan KDØSQJ

Training Update The Extra Study Group is getting to the point where we are losing students. We are losing students because they are passing the test and getting their upgrade. We will continue to work with our remaining students until they don't need us anymore. Sometime in the fall I would like to offer a hybrid class for the Technician license with both online and in-person elements. I am pondering how to do this so if anyone has suggestions please share them with me.

Field Day Update June 22 at 1PM is when "CQ Field Day" will be heard from Benson Airport and throughout North America. On behalf of the Saint Paul Radio Club and the Mining Amateur Radio Club I would like to invite you to join us. As usual we are making a few tweaks and changing a few things to make it better. The best way we can improve is through YOUR participation. One of the big goals this year is to increase the number of folks who show up. If you bring a friend or family member with you you can show them some of what we do and give them a good meal in the process. I also want to get more of you on the air this year. Even if you only make 1 contact you will help our score. We also have some who would like logging help while they are on the air. Get a partner and maybe switch off with on the air and logging. This year the ARRL theme is "Be Radio Active" so that's our goal as well.



73 Pete

SPRC Banquet Reminder By Jay Maher NJOM

A reminder to get on the list for the 2024 SPRC Banquet! See the details in the announcement on the next page. Please email me at jay@umn.edu no later than April 10th if you plan to attend and keep trying if you don't get a confirmation response in a day or two. **If you don't get a confirmation email from me you are not on the list!** I will be on the road the first two weeks in April so responses may take more than 24 hours. For more information about the banquet, please see the net page.



SPRC Banquet 2024.

We will be returning to Jameson's Irish Bar (886 Smith Ave S, West St Paul, MN) for the 2024 Banquet. We were competing with a large wedding party last year so the service wasn't quite as good as in 2022 but the food was still great. They have a private room which works for groups under 40 people. No buffet, but they do a plated service with a choice of chicken, steak, or walleye (you must choose when you confirm your attendance). I will bring a sheet cake for dessert. Coffee or water is available with the meal and the bar is close by if you want purchase an alternative drink. The room should be ready for us at 6:00 and we'll plan on having the food brought out at 6:30. If you show up a bit early please hang out near the bar. Our speaker will be Pat Gearty, WØYES, who will tell us about his travels with his wife Dianne and how they activated more than six hundred parks in their RV. To finish the night we'll award the Member of the Year and draw for a few door prizes.

Pat Gearty – WØYES – RADIO JOURNEY IN THE PARKS

My wife Dianne & I enjoy travel, natural resources and camping in our RV. In 2016 I installed a ham station in the RV to participate in PARKS programs. Since then, I've activated more than six hundred parks and logged forty thousand QSOs from the RV while traveling. This presentation will show what, where and how we've enjoyed amateur radio in the PARKS.

I am a **BORN-AGAIN HAM** and a **RADIOMAN** from early in life. I was first licensed in 1964 as a Novice, followed with my General. I was active for 10 years when I fell **Off-The-Air** and let my license lapse. My Radio-Active career with Motorola, American Paging and Sprint fulfilled my RF fix for nearly 50 years. With my career behind me, I missed RF. In 2015 I retook the exams with the **St. Paul Radio Club's Volunteer Examiner** program, received my Extra class license and reentered amateur radio. I am now a ARRL accredited Volunteer Examiner with the Maple Grove Radio Club.

My Plymouth, Minnesota home station is modest with wires in the trees. I enjoy operating fixed mobile in my RV and portable in parks with a variety of antennas. My primary activity is on the HF bands with SSB and CW modes. I collect and restore vintage radios and I'm on the board of the Pavek Museum in St. Louis Park.

What : SPRC 2024 Banquet

When: Saturday, April 20th 2024. 6:00 – 9:00ish PM

Where: Jameson's Irish Bar, Murray Room. 886 Smith Ave S, West St Paul, MN

Cost: 15.00 / person (the Club subsidizes half the actual 30.00 charge so if you commit to attend please follow through with payment)

How do I sign up and pay: email me, Jay Maher at jay@umn.edu. Preferably by the end of March but no later than April 10th. I will be on vacation for the first 11 days in April so I won't be at the April meeting and email may be spotty. Let me know how many will be attending and their names (for the door prize drawing) **and entree choice**. Let me know if we need to arrange a vegetarian option. **I will send you an email confirmation.** *If you don't receive a confirmation within a day or two, don't assume your email made it through - try again or call (612-850-0810).* Please bring a check (or correct cash amount) to the Banquet; please do not send any payment thru the mail. **Questions:** email me at jay@umn.edu

St. Paul Radio Club Breakfast

Saturday April 20th, 2024 9:00 am

(Third Saturday of each month)



Denny's Restaurant

1664 University Ave. W.

One block West of Snelling Ave.

(Across from Ax Man)

Club Wearables

Many different items with the Saint Paul Radio Club logo may be ordered at: <https://www.hamthreads.com/> Dale spoke with the owner Diane and she assured him they still have our logo in three sizes, hat/chest/back, so you can have it positioned on your favorite item wherever you like. You can shop on line, pick the clothing piece you want, list the logo, name and callsign and pay. Sit back and it comes to your house. If you have questions, give them a call 817.602.1834

Notes from the Editor by Dan Meyer NØKFB

I need your help. I am **not be able to attend** the April meeting in-person, and need a couple additional people to help set up and operate the A/V system up in my absence. Dan McArdell, KA0IZK will be delivering my equipment to Cretin and will direct set up and operation. Please meet Dan before the April meeting at around 5:30 to help with set up.

Also, a big **Thank You** for all who have assisted me with setup and teardown of the A/V system at club meetings. It is appreciated and makes completing the task quicker and easier than if I do it all myself.

Finally, a HUGE thank you to everyone who has contributed articles to the Ground Wave since I have become editor. It makes the job a lot easier than trying to come up with material myself!

BoD Meeting Minutes – by Art Thell, NØIWQ

Saint Paul Radio Club
Hereinafter referred to as “SPRC”
Board Meeting Minutes
03-01-2024 6:00 PM

Board members present: (If * or E or R)

Dale Maroushek (Pres.)-NØPEY *	Kevin Welna (V. Pres.)-W5LNA *
Art Thell (Secy.)-NØIWQ *	George Power- (Treas.)-KØGCP *
Br. Bob Walsh-WCØJ *	Don Kelly-WA6ZMT R
Ralph Bierbaum-(P. Pres.)-NØAWN E	

Also present (If or R):

Jay Maher-NJØM *	Jeff Iverson-WB9DAN	Dan Meyer-NØKFB *
Pete Guldán-KDØSQJ*	John Crabtree-KCØG *	Ben Otto-KEØRFZ
Janet Bierbaum KDØBZZ	Dawn Holmberg WXØZ *	Steven Scott-WA7HPK
Andy Parent-KFØMJQ *	Doug Lueck KFØMPG *	

6:02 Pres. Dale called the meeting to order.

President: Call for added agenda items: (3)

Old Business:

Secretary's Report:

Art: Move to accept Minutes as published in the Ground Wave. Second Kevin. Passed

Treasurer's report: George

Auction Final Report:

Cash draw	\$300.00	
3233 Geoff Mahoney	\$180.00	Bidder
3234 Shell Mann	\$195.30	Bidder
3235 Doug Helmstead	\$130.50	Bidder
3236 Bob Parnell	\$216.90	Bidder
3237 RCRA (1 st check)	\$133.00	Bidder
3238 RCRA (2 nd check)	\$153.00	Bidder
3239 Crown Printing	\$130.00	Supplies (aka Precision Forms)
3240 Mike Gusinda (Melvin's est.)	\$819.00	Bidder
3241 Dale Maroushek	\$38.18	Food
	Total out	\$2295.88

(continued on next page)

Cash	Replace Draw	\$300.00
Deposit	Auction checks rec'd.	\$2729.63
Deposit	Auction cash rec'd.	\$2463.00
	Total in	\$5492.63

Net profit: \$3196.75
 =====

Account balances:

Date: 2024-03-01 General Fund: \$10,312.19, Repeater Fund: \$1264.25,
 Education Fund: \$1495.38, Total Cash on Hand: \$13,071.82.

So noted and filed: Secretary

Dale proposed that the club determine what SPRC should donate to the ARRL Spectrum Defense Fund with some suggestions. Kevin proposed rounding the auction profit to \$3200.00 and so moved. Seconded by George. Passed.

CDH ARC Report: Br. Bob No change

Repeater Report: Dale: Working

Membership Report: Dale, 112

Website report: (stpaulradioclub.org)

Tom KCØINP along with Don WA6ZMT are finalizing the shift to saintpaulradioclub.org as the official website allowing stpaulradioclub.org as well.

VE Report: (8) candidates scheduled for Sat.

Training Report: Pete (9) total students with (4) active online and (5) independently.

Jay reported that the SPRC Banquet is on April 20 at Jameson's, same place as last year. He was looking for a potential head count. Cost is \$15 per person & \$15 paid by the club. Send reservations to Jay at jay@umn.edu and he will return a confirmation.

Midwinter Madness Hamfest. March 23, 2024 Buffalo Civic Center

SPRC Banner & Table advertising is set with Dale, George, John, and Andy committed. They would appreciate that members visit and join them for breaks.

New Business:

Field Day (Pete): Co-Chair Doug Lueck

June 22 & 23, 2024. Setup June 21. Check the GW for more info.

We are set for Benson's Airport again this year.

Chair, Pete, invited club members to assist with the myriad of details from setup to food.

This is the big operating and social event of the year.

(continued on next page)

Minnesota Amateur Radio Consortium: Don K. is working with others to charter the organization which is being founded to promote Amateur Radio. Andy Parent volunteered to be the SPRC Delegate. Dan McArdeall has volunteered to be an incorporator. All MN clubs will be invited to become members.

Treasurer, George, is working on a method of digital banking for receipts and occasional disbursements. Financial institutions state that, due to (changed) IRS rules, we need to determine if we qualify as a 501c3 or 501c4 organization. Those refined designations postdate our charter. George will contact the IRS to determine their standing on the matter.

Newly licensed Hams: George has a Power Point Tutorial regarding using HT's that will be available on a private U-Tube channel.

Club Breakfast: March 16 at 9:00 AM. (Normally third Saturday)
Place—Denny's at 1664 University Ave. W.—Across from the AxMan

Adjourn:

Move: Kevin Second: Art

6:46: Adjourn.

Membership Meeting Minutes – by Art Thell, NØIWQ

**Saint Paul Radio Club
Hereinafter referred to as "SPRC"
Member Meeting Minutes
03-01-2024 7:30 pm**

7:32 Call to order by Pres. Dale

33 Members present plus Remote.

President call for other agenda items_____

Old Business:

Account balances:

Date: 2024-03-01 General Fund: \$10,312.19, Repeater Fund: \$1264.25,
Education Fund: \$1495.38, Total Cash on Hand: \$13,071.82.

Membership report, Dale: 112

Repeater Report:

(continued on next page)

VE Report:

Training Report, Pete: Extra Class with (4) active online and (5) independent.
May have a Tech class in the autumn.

Midwinter Madness Hamfest: March 23, 2024 Buffalo Civic Center
Club has a table and representatives set up. Would appreciate that members stop by and sit to provide breaks.

Field Day:

Open volunteer positions report:

New Business:

May SPRC meetings will include two-year term elections for President, V. President, Secretary, and Treasurer. New officer candidates would be appreciated. The present Secretary, Art, wants to retire because of other commitments.

Minnesota Amateur Radio Consortium: Liaison, Don K. is working with others to charter the organization which is being founded to promote Amateur Radio. All MN clubs will be invited to become members. Contact Don at: donkelly55331@gmail.com

Club Breakfast: March 16, 2024 at 9:00 AM.

Place: Denny's at 1664 University Ave. Across from the AxMan.
Normally Third Saturday----

Move to adjourn: Dan Second: Mark

Adjourn: 7:52

Program to follow:

SPRC Contact Information

President	Maroushek, Dale NØPEY	n0pey@comcast.net	651-238-5720
Vice President	Welna, Kevin W5LNA	kwelna@gmail.com	651-354-5515
Past President	Bierbaum, Ralph NØAWN	rwbierbaum@comcast.net	612-201-9510
Treasurer	Power, George KØGCP	georgecpower@gmail.com	651-233-3215
Secretary	Thell, Art NØIWQ	thellaj@comcast.net	651-492-0254
Member At-Large	Kelly, Don WA6ZMT	dk@donkelly.biz	651-276-4838
Member At-Large	Walsh, Bob WCØJ	brw.fsc@gmail.com	612-201-0818
Ground Wave Editor	Meyer, Daniel NØKFB	dan@meyer-family.net	763-238-8239

SPRC Calendar

- Fri Apr 5 6 PM SPRC Board meeting, Commons Meeting Room, John R. Albers Center, Cretin-Derham Hall High School. *
- Fri Apr 5 7 PM Socializing followed by 7:30 PM SPRC Membership meeting. Commons Meeting Room, John R. Albers Center, Cretin-Derham Hall High School.
- Sat Apr 6 9:30 AM Amateur Radio testing administered by Saint Paul Radio Club volunteer examiner team. Galilee Lutheran Church, 145 N McCarrons Blvd, Roseville, MN. Reservations required; Contact Ron Lundeen, KØKWN, Telephone 320-321-2744 or e-mail Ronald@lundeen.net
- Sat Apr 20 9 AM SPRC Breakfast. Denny's, 1664 University Ave, west of Snelling.
Please note: This event may be changed due to the banquet on the same day.
- Sat Apr 20 Saint Paul Radio Club Annual Banquet.
Jameson's Irish Bar, 886 Smith Ave S, West Saint Paul.
- Fri May 3 6 PM SPRC Board meeting, Commons Meeting Room, John R. Albers Center, Cretin-Derham Hall High School. *
- Fri May 3 7 PM Socializing followed by 7:30 PM SPRC Membership meeting. Commons Meeting Room, John R. Albers Center, Cretin-Derham Hall High School.
- Sat May 4 9:30 AM Amateur Radio testing administered by Saint Paul Radio Club volunteer examiner team. Galilee Lutheran Church, 145 N McCarrons Blvd, Roseville, MN. Reservations required; Contact Ron Lundeen, KØKWN, Telephone 320-321-2744 or e-mail Ronald@lundeen.net
- Sat Apr 20 9 AM SPRC Breakfast. Denny's, 1664 University Ave, west of Snelling.
- Sat Oct 5 North Star Radio Convention Brooklyn Park MN <http://mnconvention.org/>

* Depending on business to be considered, Board Meetings are sometimes held electronically. Check with a Board member beforehand to confirm a meeting.

Zoom Meeting Information

Simply click the link below (or copy and paste link into your browser if that doesn't work) or for audio-only call in from any phone; dial 507-473-4847 and follow the prompts.

If you are not familiar with Zoom and would like to arrange to practice, text Don at (651) 276-4838 or email dk@donkelly.biz.

SPRC Monthly Meeting

Time: April 5th, 2024 06:00 PM Central Time (US and Canada)

To Join the Zoom Meeting use **Meeting ID: 651 842 1000** and **Passcode: 6512764838**

Or this link:

<https://us02web.zoom.us/j/6518421000?pwd=djluU3dha0FBN1hERIRoUVA0RVNUQT09>

Or

<https://tinyurl.com/ys4efevx>

One-tap mobile:

+13462487799,,6518421000#,,,,*6512764838# US

+12532050468,,6518421000#,,,,*6512764838# US

For audio-only, dial 507-473-4847

To find other dial-in numbers, see: <https://us02web.zoom.us/u/kuWkJhGiz>