

 <p><b>www.arrl.org</b></p>		<p align="center"><b>St. Paul Radio Club</b>  <b>Ground Wave</b></p> <p align="center"><i>Dan Meyer, NØKFB, Editor</i>  <i>Dale Maroushek, NØPEY, Publisher</i>  <a href="http://www.magicrepeater.net/sprc.htm">http://www.magicrepeater.net/sprc.htm</a></p>	<p align="center"><b>KØAGF</b></p> <p align="center">Club Repeaters:  145.310 MHz, 442.450 MHz  114.8 kHz tone  PO Box 9375  North St. Paul, MN 55109</p>
--	---	--	---

**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 JANUARY 2023 – Volume 83, Issue 1

### **NEXT MEETING: FRIDAY January 6, 2023**

- 6:00 PM Board Meeting (all are welcome to attend and observe)
- 7:00 PM 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 so if you arrive after that, please call me to let you in. 612-201-0818 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 January Program will be presented by Jeff Winsor, coordinator of the Ryan STEM Center at Cretin-Derham Hall High School. Jeff is a graduate of CDH and, after finishing his studies at Saint Paul College, he did his electrician's apprenticeship with IBEW Local 110. Jeff is also the coach of CDH's robotics team, a member of the MSHSL. He will show a short video clip of a robotics' team competition. As part of his presentation, Jeff will give a tour of the Ryan STEM Center and then end with a Q&A session.

A recent interest for Jeff is forming a student group to participate in a drone league. Jeff said he has several friends who are ham radio operators and that they have interested him in the hobby.

## **The Prez Sez by Ralph Bierbaum NØAWN**

Well, if you adhere to the old common wisdom about putting up antennas in lousy weather, then the past couple of weeks should have seen a “flurry” of activity at your stations.

I hope you all had a wonderful Holiday season with much good cheer and fine food. The SPRC holiday party was a well-attended event and I, for one, enjoyed seeing so many old friends.

I have started preparing for the Saint Paul Radio Club Auction coming up in January, always an enjoyable time for me as auctioneer. I also am serving as associate IT hardware guy, along with my good friend and resident IT expert, Dan Meyer NØKFB (also our GroundWave editor). We want to make the IT side of the auction smooth and seamless for the hard-working accounting crew that handles the tall task of keeping things in order.

I’ve been experimenting with GMRS radio as a possible tool for use in emergencies by non-amateurs such as CERT team members. It also has possibilities as a stepping stone for users into the Amateur Community.

Work has been completed on standardizing the Club literature Mast Head, for email, letters, essentially all published items that are seen by the public. The Club brochure has been updated and even a few internal club documents have been reworked. Work also continues on reworking the club web page, as we welcome Tom Bredemus KCØINP back as web page manager.

Dan NØKFB and I (but mostly Dan) continue to add technology to make our Zoom meetings better and more enjoyable for those who cannot attend in person and our resident snow-birds whom, after this winter so far, I would love to join.

I would like to take a moment to remember William McGonigal – KAØETS and his son Kevin McGonigal – KAØDGZ, both silent keys now. They enjoyed Amateur Radio as a father and son activity. Kevin was disabled and amateur radio was a hobby they could and did enjoy together. Their daughter/sister Molly, donated some of their radio equipment to the club in December for that we are most thankful.

I would also like to finish the year by thanking Don Kelly, WA6ZMT, Past President, among a host of other things for his continued support of the Saint Paul Radio Club and of me during my inaugural year as president. Without his singular support, there would have been no Zoom meetings during COVID, continuing on through our upcoming meeting. That, along with a strong board, helped keep the club together during this most trying of times. Thank you Don for all that you have done and continue to do for The Saint Paul Radio Club and Amateur Radio.

Hope to see you at the January meeting, the VE session, the Auction or maybe even at the Club Breakfast. Otherwise, there is always the 10m Friendly net and the 2m Saint Paul Radio Club Net. Nets meet on Wednesdays with the 10 meter “Friendly Net” on 28.310 MHz (USB) at 1930 and the 2-meter net is on the club repeater 145.310 MHz 114.8 Hz tone at 2030.

73 DE NØAWN

## Get On the Air From Almost Anywhere by John Hines NØKCJ

The Small Transmitting Loop (STL) Antenna is becoming increasingly popular as more hams find themselves in apartments, homes with small yards with no room for radials and many other antenna restrictions as well. With ever smaller rigs becoming available it also brings thoughts of portable operation to mind in many of us. With a footprint that will easily fit on a card or picnic table, no need for 1/4 wavelength elevation above ground or ground radials it fits the bill for indoor, portable or any restricted space application.

From my personal experience I can assure you they do work.

I will emphasize I have no affiliation with any of the businesses mentioned in this Article.

As with many types of antennas there are two routes available, just buy one and get on the air or build your own. The first method can be somewhere between a bit to quite costly but saves a lot of time. The second method saves the money but does take a certain amount of time, for now let's just take a look at some examples of the "Just buy it" variety.

There are a number of manufacturers such as Chameleon

<https://chameleonantenna.com/shop-here/ols/products/cha-f-loop-30> , Alexloop <https://www.dxzone.com/alex-loop/> , and Icom ( <https://www.dxzone.com/icom-al-705-magnetic-loop-antenna/> , and in the event you have WAY too much money, Ciro Mazzoni <https://www.loopantennai3vhf.com/> .

Information on all these and more are available on the Worldwide Web. I have listed only a few. My experience is limited to MFJ and homebrew. So I will not comment on the other makes as to their performance or otherwise.

MFJ (the group many of us love to hate; occasionally, for good reason) makes a model 1788 loop antenna that seems to be designed for semi-permanent installation, it's about 3 1/2 feet in Diameter with a remote tuner, rated at 150 watts transmit power, covers 40 thru 15 meters and as of 9/27/2022 sells for \$719.95!

<https://mfjenterprises.com/products/mfj-1788>. The manual can be downloaded and read here; <https://cdn.shopify.com/s/files/1/0289/7782/3843/files/MFJ-1788.pdf>.

MFJ also sells 2 low power units with NO auto tuning capability, they are the MFJ-9232 <https://mfjenterprises.com/products/mfj-9232> that sells for \$79.95 and the MFJ 9234 <https://mfjenterprises.com/products/mfj-9234> for 89.95

The 9234 has a SO-239 for the feed line where as the MFJ 9232 has a BNC connector. I have the 9232 and use a BNC to PL259 adapter for the feed line connection. The specs say its rated for 20W input, my experience revealed the 20w rating is for SSB NOT CW, at 20 w CW the capacitor did arc. This info is from my personal experience, none the less, with 10w of power I have made CW contacts to CO. and NY on 20 meters and to MPLS on 40M all from the patio of the Cowboy Saloon located in the northern Twin Cities suburb of Lexington.

MFJ also markets three "Loop Tuner Boxes" suitable for the 150 watt power range, you can look them over here: <https://mfjenterprises.com/products/mfj-933c> , <https://mfjenterprises.com/products/mfj-935c-high-efficiency-magnetic-loop-tuner-antenna-current-meter> . <https://mfjenterprises.com/collections/new-products/products/mfj-936c-deluxe-high-efficiency-magnetic-loop-tuner> priced from \$264.94 to \$369.95. As with lower priced units these require you to supply the Loop conductor and support. I use a piece of coax (about 10ft for 20m) and nonmetallic support to form it into some sort of loop, rectangle or something similar. 3/4" PVC pipe with an "X" piece has served me well for years as a support and is available at any well stocked hardware store (Menard's for sure). All three of the 150 w units come with a fitting installed on the top surface to allow the 3/4" pipe to be inserted as shown. If you don't glue the pipes and fittings together it can be pulled apart and put in a large gym bag, along with the co-ax, for storage and transport

MFJ charges \$89.95 for their premade version, you can make the same thing for about \$18.00 and a trip to Menard's!

I have two of the lower priced model 933 <https://mfjenterprises.com/products/mfj-933c> and they work well for me, and mine don't even have a meter! Why pay extra for a meter when your radio already has an SWR meter built in (or you already have an antenna analyzer)?

A word of caution is in order at this point. When I first got the second (newer version with SO-239s on either side} loop tuner box it didn't work properly. The matching capacitor rotor contacted the side of the case as it was rotated and made a scrapping sound. Simply removing the knob, loosening the mounting nut and moving the cap slightly away from the left side of the case and retightening the nut fixed that (fortunately the mounting hole is large enough to allow sufficient movement). The second problem was the SO-239 connector on the left side of the unit was connected to the same set of cap plates as the one on the right side. So, the wire had to be unsoldered, repositioned and resoldered to the rod connected to other set of plates.

In view of the above, make sure you can receive on the unit BEFORE attempting a transmission. There are also two wing nuts on the rear of the unit to attach the antenna element as an alternate to the SO-239s on the sides. The clue to the problem was with a piece of #10 wire on the wing nuts receive was fine but when a piece of co-ax of the same length was attached to the side connectors nothing was heard.

There are two ways to connect the loop to the (newer) tuner boxes, the co-ax connectors on the sides of the box (not available on the original versions) or the two wing nuts on the rear. If you're going to do a lot of portable operation, the SO-239s on the sides seem most convenient but this will require a piece of co-ax with PL259s. The wingnut arrangement on the back simply requires stripping a few inches of jacket off each end of a 10ft piece of co-ax, using gloves to protect your hands, separating the braid, twisting it together with the center conductor and soldering the two together (optional but highly recommended) and clamping one end of the co-ax under one wingnut and the other end to the other wingnut. Let me say there is no electrical reason to connect the center conductor to the shield; RF travels on the outside of a conductor. The only reason I mention joining the two is for the additional mechanical strength. If you're only going to receive a piece of #10 wire of the proper length will work fine, as a matter of fact with my tuner box sitting on a bistro table in my driveway (not quite 3ft above ground) and a piece of #10 wire as the antenna element and a Yaesu 857 running 100W I QSOd with Italy. I have also talked with a station in Iowa with a 3 Ft loop sitting right on the ground.

The user manual for the Model 933C can be found here

<https://cdn.shopify.com/s/files/1/0289/7782/3843/files/MFJ-933C.pdf?v=1609276752>

and is an absolute must read before using the 933c. The same must be said for any of the loop tuner boxes!

Tips you may find useful:

Although you can use wire, as suggested in the user manual, a larger conductor makes tuning easier (RG-8 or copper tubing).

Use an antenna analyzer for tuning.

If you're using an analyzer, Rotate the tuning knob to find the SWR null then move the matching control SLIGHTLY in one direction and RE-ADJUST the tuning knob for the null, if the null is better move the matching knob SLIGHTLY further in that direction. If the null or low SWR is worse, go SLIGHTLY the other way and remember to retune. Repeating these steps will generally result in a SWR well under 2:1. Once you achieve optimum settings WRITE THEM DOWN! It will save a lot of time the next time you want to use that frequency.

In many of the YouTube videos the matching knob isn't even motioned and that results in less than optimum performance!

If you're just using your radio and an SWR meter for tuning USE LOW POWER and remember to use AM or CW mode. SSB will not give enough carrier for a useful indication.

The author or any entity associated with the author will accept no liability for any damage or injury resulting from the implementation of any procedure or activity described herein.

I hope this and the links provided, which have to be copied and pasted into your browser, has provided you with some useful information if you're interested in portable or antenna restricted location operation. If you're interested but not ready to spend quite this much money, stay tuned and I'll be back as space permits with how to build your own loop antenna for a fraction of the price of a manufactured one.

-73 - de N0KCJ John

## Static by Scott NØAR

While on another snow shoveling adventure I thought about all the little static generators that had fallen and how they affect our gear. Most of our radios have some form of static bleed on the antenna jack. This can be a high value resistor or a coil to ground. The idea is that it drains off any build up of a charge that might show up on the antenna connected to the radio. The build up of a charge from rain, snow, blowing wind or lightning can result in damage to the radio hooked to it. Sometimes damage happens right away. Other times the resulting damage just results in a premature failure of the part at a later date. It's easy to determine if you have protection built in to the radio or tuner, just hook an ohm meter up and see if it reads a short or a very high value of resistance. Your schematic should also show the parts for static elimination. If there aren't any then it's time to add the protection. The absolute easiest protection is a high value resistor in a coax connector attached to a "T" at the back of the radio.

I like antenna switches that have a grounded position as one of the selection choices. While this doesn't help a radio that is missing protection, it adds one more level of protection when you are not around. Some protection uses arc plugs or even car spark plugs to drain off charges. These are not my first choice as the same voltage required for them to fire are on the radios antenna input as well. Many VHF/UHF antennas are DC grounded and offer built in protection, that is provided the feed-line is properly grounded to the supporting structure. HF antennas often do not address the issue at all. Simple wire or dipole antennas definitely are candidates for static help. Hearing your tuner snapping or watching sparks jump on you coax connector is something you want to avoid! Now we all have something to check when the next CME arrives and the bands shut down! Happy Holidays!

## **Dale's Details by Dale Maroushek NØPEY**

January already, how can that be? So we have the meeting coming up on Jan. 6th, maybe we will have a warming steak into the 20's! Xmas eve is a couple days away and I have to cook out on the deck for griddles, grilling, boiling and deep frying. Four p.m. temp today was -4, not a good sign. I think I'll wrap the cooking gear around the doorway so some of the heat will benefit me. What's on the menu you ask, mostly bottom crawling seafood, with a ham kicker for traditional coverage?

The nets are moving right along and I think the cold weather is making the signals better. Or maybe it was the new antennas that some of the guys installed during the warm days. Stop by and visit with us on Wednesday nights.

Both MARC and our breakfast meetings are growing too. Six to eight at Marc and 10 to 12 at SPRC. Both Clubs are welcoming back NOTIA, Kirk Wolff, and later his son's as he gets back into radio. He was a young guy looking for some Elmer's when he found us at MARC in the 90's. Didn't take much to get him licensed and then school and life took him away until now. In the meantime he has established his own Circuit Board company. Should be a good asset for us all.

That brings us to the Auction on January 28th, flyer is attached. Not much, but some stuff has been collected from donations and estates. Certainly not like the tons of stuff last year. So this is a great opportunity to reduce your unused gear inventory and put it up for sale. It can be that old radio covered in dust or a box of radio trinkets you saved up since 1991 and just don't find time to play with them anymore. The Auction team is always looking for trainees and helpers. Once again I would love to observe this Auction as my last as MC. We started training Ben last year and hope he will be ready to take the reins next year.

So much for radio news, let's get back to yesteryear with another chapter of ASA all the way. We left off at my arrival at Fort Devens, MA in Nov of 1967. We were welcomed with the news that contrary to what the big lie said, some/most of us would visit Viet Nam in the next couple years. Some of us more than once, by choice! But that's a future story.

Company C, called the "Casual" company because none of us had been trained to do anything else the Army wanted you to do except play Army. We were there to wait for our security clearances to come in and then wait again to be assigned to an upcoming training class for what the Army figured you would be good at.



Not to make lite of them, and I know there were many of us Hams that learned this way, but any trainee that was there for Morse code reception of any kind, could get into a class every 10 days. They didn't need a clearance to learn to copy code, just what they did with the knowledge and environment later. So code reception went on two shifts on weekdays. The Army used the shouting method, the whole class shouting: dit dah, alpha (etc) and learning by repetitions. Yes, there were guys that jumped up from sound sleep shouting it. Most passed the stages of learning, 5, 8, 10, 13, 15+. By the time you learned code at that speed, your security clearance was probably in. If you passed, you went on to the next school to learn the "secret" part of the plan.

After that, you were assigned to one of the other training companies. A and B were considered the lucky ones as they moved over to the main New area with the new brick buildings with air conditioning! The rest were redistributed to the D thru H companies in the Old WWII barracks area. So that's what happened to the hundreds of "ditty boppers" that were produced at Devens.

For those of us who weren't required to take Morse code training, we just had to wait, and wait. So what does the Army do with solders that have nothing assigned for them to do? Well the theory was, that the Casuals would do all the dirty work so students didn't miss classes. So, C Company was a large recurring labor force that migrated with time to fulfill the needs to keep the area safe. I was in that capacity for four months! Let me list the jobs I did or heard about, during that time. Call these the Good Jobs!

CQ, Charge of Quarters, a recurring duty that was sucked up by friends of the ones going out. These are the guys that answer the phones and handle situations during the evening and overnight and weekend hours.

Taxi driver, courier. People and goods needed to be transferred from our area to anywhere on the Post, but your vehicle was a Deuce and a half, and you needed a Military Driver's License to drive it.

Not during my time there, but simple lawn mowing needed a military license to operate the mower!

Things that I got to do.

It was winter so we shoveled snow, lots of it. The next winter Devens made Stars and Stripes newspaper front page, cause they had so much snow the pathways were neck high! Winter Noreasters you know.

Fireguard: assigned to check on the barracks/buildings with heat in an area to be sure they are not on fire and report a problem to the CQ or other MP or watchman on the route.

Fireman: This guy went around and made sure the furnaces were working and not burning the building down.

Water guard: During cold weather, you went on walking rounds to buildings that we not heated or poorly heated and had running water to run water for a couple minutes to keep the pipes from freezing.

The largest use of the Casual bodies was KP, Kitchen Police. For those that are not familiar, too Police anything means to keep it clean and tidy, or GI, Government Issue, like we all were by then. To start out, we worked "cooks hours". Monday was 0430 so we had a 30 minute meal and then position assignments were dealt out, and you worked through the lunch hour till 1400 IF you got everything done. The next crew started at 1000, had a meal and worked usually till 2000 or when the work was all done and you were excused. Here where it sucked, you switched hours every day. So on Tuesday, I would start at 1000, but the crew that got off at 2000 then started at 0430. And switch again the next day. Weekends were one crew all day, no school so most of the guys went someplace.

It's getting late so I will stop here and pick up the story next month with the play by play of feeding over 1500 guys four meals a day/night. And the Fun of getting to be the Night KP Honcho!

Dale Maroushek, NOPEY

## HELP WANTED

Your St. Paul Radio Club is looking for a VE Liaison – someone to coordinate the amateur radio exam sessions.

Currently, our exam year runs September through June with a session on the first Saturday of each month, plus an additional session in conjunction with the MAGIC Repeater Tailgater in July. All sessions are being held at Galilee Lutheran Church in Roseville at 9:30 am.

No experience is necessary, as you will be provided with on-the-job training, for 9 months if you act now. No previous experience is necessary, but merely a willingness to help out the club. The person for this position needs to be 18 years of age or older; and never have had your amateur station or operator licenses suspended or revoked; and hold a valid Amateur Extra class license; and be an accredited ARRL Volunteer Examiner. To become a VE, you merely have to take an open book exam from the ARRL, and you don't need to purchase a manual, as it's all online. You don't even need to be a member of the ARRL to qualify.

*We currently have a large team of experienced VEs who help out with the monthly exams, so anyone volunteering for this position will have plenty of help. The time commitment for this position is about 2 - 3 hours per month plus the exam sessions themselves, which are typically another 2 hours. All paperwork / forms and instruction on their use will also be provided. This is a great opportunity for someone to help out the club with this important position. **Please consider doing this.** Contact Leon, WØCOE, with your willingness to help or with any questions by sending an email to [w0coe@arrl.net](mailto:w0coe@arrl.net), or contact any of the club officers. Thank you.*

## **Ramblings from the VP's Work Bench - Kevin Welna - W5LNA**

Here I sit, hunkered down in my shack. The temp is a balmy -10 and the winds are about to pick up just to add to the insult that is winter in MN and its only December!.

The old house is 99% ready to sell! Finally!! Just need Stanley Steamer to come in and clean the carpets.

I've been spending time at the bottom of 10, 20 and 40 meters attempting to make POTA contacts. I'm having some luck, but most of the signals are pretty faint. But still, that's all part of the game. Its rather fun and the CW script is quite easy to follow and use. I believe I am up to 13 or 14 contacts. About ½ are via CW \ Morse Code. Give it a try if you have the inclination.

I have yet to start on my latest Ham project. (Memory Keyer using an ESP32) I'm starting to learn how to design a circuit board using a free online cad program called EasyEDA. I survived Morse Code Training, I am hoping this is doable as well....Time will tell.

I gotta tell ya, Ham radio is a great pastime when winter sets in. I am always surprised by how friendly and encouraging other Hams can be. Plus, it is a great way to connect when the weather turns ugly. I am hoping you are all getting on the air and making contacts and friends. Speaking of on air friends, I have one in PA. John (KC3PBY) he is an interesting fellow, not only is he a Ham, he also keeps bees. Additionally, he has a YouTube site on bee keeping. If I had the time, I think I would take this up as an additional hobby. Its quite fascinating. It never ceases to amaze me the diversity of Ham radio operator interests.

Anyone else notice a lot of noise on VHF lately? Very frustrating...although it may be my antenna? I think this summer I will have to invest in a better dual band antenna. It might be a bit "hinky" as I will have to mount it under one of the loops. Not sure what that will do to my propagation. I guess it will be time to experiment. Oh the woes of being a Ham Radio operator. Anyway, any suggestions on a decent budget minded dual band antenna? It will be on a rotor so it can be directional. I will mount it about 20-25 feet up in the air.

My R/C planes building is going full throttle. I have a number of kits and scratch builds started, In process and even completed with many more in the wings. Plus I received a gift of a number of used planes including a couple beautiful gliders. Most are ready to fly and some will require a small amount of TLC to get them air worthy. Thank god I'm retired! I can't wait till spring and get them out and up in the air. Model Plane building is quite Zen and relaxing. Anyone else out there fly? Ping me and lets get together when it's warmer and harass the hawks and falcons. HI HI

Lets not for get we have an auction coming up in the near future. Time to clean out your shack and get that stuff into someone elses shack. Plus we have a banquet in the not too distant future as well. I am hoping to be able to attend both this year. I am hope you all will attend as well.

Not much else to report this month so:

May your signals be strong and your antennas have extra gain....73

Kevin Welna VP  
W5LNA

## Club Wearables

Some folks have been asking about our Club Wearables. Many different items may be ordered at: <https://www.hamthreads.com/> It's the same website with a new owner. Dale spoke with 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



# December Board Meeting Minutes – by Art Thell, NØIWQ

Saint Paul Radio Club

Hereinafter referred to as “SPRC”

Board Meeting Minutes

12-02-2022

Board members present, (Excused or virtual):

Ralph Bierbaum-(Pres.)-NØAWN

Kevin Welna (V. Pres.)-W5LNA

Art Thell (Secy.)-NØIWQ

George Power- (Treas.)-KØGCP

Br. Bob Walsh-WCØJ

Ben Otto-KEØRFZ (E)

Lou Michaels (Pres.)-WD8NOV (E)

Other:

Jay Maher-NJØM

Dale Maroushek-NØPEY

Pete Guldán-KDØSQJ

John Crabtree-KCØG

Dan Meyer-NØKFB

Members on Zoom: ?

---

**6:06:** President, Ralph called the meeting to order.

**President:** Call for added agenda items: \_\_\_\_\_

President:

The [stpaulradioclub.org](http://stpaulradioclub.org) website is upgraded and functional. It is in a blog-type format.

Public items are updated

Application is updated.

## Old Business:

Secretary's Report: Art

Art moved to accept the November Minutes as published in the Ground Wave.

Second: Kevin

Approved.

Modification—Treasurer's duties and protocols:

Two modifications to the treasurer's duties/financial management:

Add the President as an alternate signatory to checks.

Allow the Membership Chairman to have visual access (only) to the bank account.

Note: These are not included in the present documents outlining officer or Treasurer duties.

Treasurer's report: George

George reported:

General Fund: \$7633.67      Repeater Fund: \$1049.25      Education Fund: \$1172.00

Total cash on hand: \$9854.92

Auction tickets are ordered.

Move to approve: Art      Second: Kevin      Approved.

Repeater Report: Dale: Fully functional

Membership Report: Dale:

Renewed for 2023: 82

Training Report: Pete:

Technical Class Course: Tech. Ham Cram (virtual) course planned for 3/11-12, 2023

Pete reports that all who participated in classes were successful in acquiring their goal.

Several were with re-tests.

Upgrade General course: Consideration is being given for a General Class course to begin at a later date. This would be weekly over 6 weeks or so—details to be determined.

Auction—January 23, 2023 at 8:30 until-?.

Flyers are printed ready for distribution.

To do: Review computers, software, printers, and supplies.

### **New Business:**

Banquet:      April 2023

Jay: Date, venue, caterer, program, etc. to be determined.

Adjourn:

Move: Kevin      Second: Art      Approved

**6:51: Adjourn.**

## **December Membership Meeting Minutes – by Art Thell, NØIWQ**

**Saint Paul Radio Club**

**Hereinafter referred to as “SPRC”**

**Member Meeting Minutes**

**12-02-2022 7:30 pm**

**7:20: Call to order** by Ralph

Members present: 29

**7:21: Adjourn:**

**Holiday Party:**

**And a fine repast was enjoyed by all.**

**Many thanks to Jay for acquiring the basics and all others who contributed items.**

**Thanks also to Br. Bob who has the room set up for refreshments.**

### **St. Paul Radio Club Breakfast**

**Saturday January 21st, 2023 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)**





## Photos from our holiday potluck By Dawn Holmberg WXØZ

At left, the potluck table.

Below, president Ralph Bierbaum NØAWN welcoming everyone to fill their plates and eat.



Above: Jim Muecke KCØPZO and others at the potluck table.

Left: John Berglund KØUBA at the potluck table.

## Officer Contact Information

President	Bierbaum, Ralph, NØAWN	<a href="mailto:rwbierbaum@comcast.net">rwbierbaum@comcast.net</a>	612-201-9510
Vice President	Welna, Kevin W5LNA	<a href="mailto:kwelna@gmail.com">kwelna@gmail.com</a>	651-354-5515
Past President	Michaels, Lou WD8NOV	<a href="mailto:louthephotoguy@gmail.com">louthephotoguy@gmail.com</a>	612-638-8159
Treasurer	Power, George KØGCP	<a href="mailto:georgecpower@gmail.com">georgecpower@gmail.com</a>	651-233-3215
Secretary	Thell, Art NØIWQ	<a href="mailto:thellaj@comcast.net">thellaj@comcast.net</a>	651-492-0254
Member At-Large	Otto, Ben KEØRFZ	<a href="mailto:ke0rfz@gmail.com">ke0rfz@gmail.com</a>	651-352-9590
Member At-Large	Walsh, Bob WCØJ	<a href="mailto:brw.fsc@gmail.com">brw.fsc@gmail.com</a>	612-201-0818

## SPRC Calendar

- Fri Jan 6 6PM SPRC Board meeting, Commons Meeting Room,  
John R. Albers Center, Cretin-Derham Hall High School. \*
- Fri Jan 6 7PM Socializing followed by 7:30 PM SPRC Membership meeting.  
Commons Meeting Room, John R. Albers Center, Cretin-Derham Hall High School.
- Sat Jan 7 9:30 AM VE testing. Galilee Lutheran Church.  
145 N McCarrons Blvd, Roseville, MN 55113.  
Reservations required. No walk-ins until further notice.  
Contact Leon Dill, WØCOE@arrrl.net or 651-425-0338.
- Sat Jan 21 9AM SPRC Breakfast. Denny's, 1664 University Ave, west of Snelling.
- Sat Jan 28 SPRC Auction. Commons Meeting Room,  
John R. Albers Center, Cretin-Derham Hall High School.
- Fri Feb 3 6PM SPRC Board meeting, Commons Meeting Room,  
John R. Albers Center, Cretin-Derham Hall High School. \*
- Fri Feb 3 7PM Socializing followed by 7:30 PM SPRC Membership meeting.  
Commons Meeting Room, John R. Albers Center, Cretin-Derham Hall High School.
- Sat Feb 4 9:30 AM VE testing. Galilee Lutheran Church.  
145 N McCarrons Blvd, Roseville, MN 55113.  
Reservations required. No walk-ins until further notice.  
Contact Leon Dill, WØCOE@arrrl.net or 651-425-0338.
- Sat Feb 18 9AM SPRC Breakfast. Denny's, 1664 University Ave, west of Snelling.
- Sat Feb 18 9AM-1PM St. Cloud ARC Cabin Fever Reliever Hamfest 2023.  
St. Cloud Armory, 1710 Veteran's Drive, St. Cloud, MN

*\* 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 call in from any phone.

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

Saint Paul Radio Club is inviting you to a scheduled Zoom meeting.

Topic: SPRC Monthly Meeting

Time: Jan 6, 2023 06:00 PM Central Time (US and Canada)

Jan 6, 2023 06:00 PM

Feb 3, 2023 06:00 PM

Mar 3, 2023 06:00 PM

Mar 31, 2023 06:00 PM

May 5, 2023 06:00 PM

To Join the Zoom Meeting use this link:

<https://us02web.zoom.us/j/87882794434?pwd=bGdueVVhNmZXVjQrRjFOL2tZMlhmZz09>  
or

<https://tinyurl.com/2tyybeuc>

Meeting ID: 878 8279 4434 Passcode: 6512764838

One tap mobile +13092053325,,87882794434#,,,,\*6512764838# US

For audio-only, dial +1 312 626 6799 US (Chicago)

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

Please download and import the following iCalendar (.ics) files to add the meeting to your calendar system: <https://us02web.zoom.us/meeting/tZMlf-uvpz8uGdAS6lYyFBq9uL1cXxTVtmJ-/ics?icsToken=98tyKuGvpjMoHd2RtBqDRpwEGoqga-3xmCibjad8r0nMOj11QBKvI84TMYpnJO7E>