

 <a href="http://www.arrl.org">www.arrl.org</a>		<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>
---	---	--	---

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

## NEWS AND NOTES FOR DECEMBER 2022 – Volume 82, Issue 12

### **NEXT MEETING: FRIDAY December 2, 2022**

6:00 PM Board Meeting. (All are welcome to attend or watch.)

7:00 PM Holiday Party. See below for details.

### **Entrance to CDH for our meeting**

Meetings are held at Cretin-Durham 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-Durham 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 program will be our annual Holiday party for those able to attend in person. The club

will provide deli trays and beverages. If you are able, you are asked to bring something to share. If you cannot come in person, please join us on Zoom for fellowship.

## The Prez Sez

The Holidays are upon us, much like the winter snows, although the promise of a warmer Thanksgiving is out there. The older I get, that old adage about the worse the weather when an antenna is put up, the better it works, seems more and more like the myth it is. I did not get the UHF antenna up on the tower, so it's going in the attic. Some antenna is better than no antenna .....

Speaking of the Holidays, I want to include a reminder that our December club meeting, will be our Holiday party, which has developed into a folks bringing a "dish to share" event, along with the club provided meat and cheese tray. Janet KDØBZZ will be bringing something tasty. This truly feels like the Holidays and I have always enjoyed this club get together tradition. It is a chance to enjoy a chat with like-minded friends and let's face it, no one enjoys a chat quite as much as a group of amateur radio operators.

COVID hit clubs of all kinds hard, hundreds shriveled and folded. The sociologists warned that this would happen, and yet here we are. Gas prices are up, getting around is more difficult, with all the unfinished road construction projects, and the winter snows are here....yet here we are. Our very hobby, keeps us together, continuing the art of spoken conversation. We want to be together, our on-air nets and increasing on-air time, prove that. Our GroundWave editor Dan NØKFB is continuously improving our ZOOM meeting technology so those who cannot physically attend the meetings, are with us because we WANT to be together and we WANT everyone there.

With the new year, we will be restarting the meeting Door Prize Raffle. It's not a big job, but we would like to welcome anyone interested in selling tickets and running the raffle on meeting night, to the club management team. Become a "brick in the wall" that the Saint Paul Radio Club rests on. You'll have plenty of help and people will love you for it.

With that, I will say 73 and I hope to see you all at the December party/meeting.

DE NØAWN

## **Mounting Backyard Antennas by Scott NØAR**

When we moved here my trees were too small for antenna supports. I decided to install poles for the wire antennas. I wanted them strong enough to not move from the constant external forces. One of the problems with cementing in pipe is you can't easily take it down for any maintenance. My easy solution was to put in "sockets" that could hold the pipe and not require guy lines to keep it standing. My soil is clay and about 2" of black dirt on top to keep the grass alive. At each location I wanted a support pipe I dug a hole and sunk in a 2 ½" PVC that was surrounded by concrete. I used the recommended methods, gravel at the bottom of the hole, etc. My dipole pipes are thin wall pipe like on fence rails. The pipe I used for a heaver antenna is thicker walled water pipe. The pipes that I have can be removed and the hole covered allowing grass to completely hide the fact that it was ever there. Coax that runs to and up the pipe is protected by a short piece of PVC so the lawn mover doesn't cut it. The hole diameter and depth up is up to your local soil conditions for the PVC socket. I sized the plastic pipe I used to be larger than needed. It's easy to slice PVC to beef up the pipe and fit the metal pipe as required.

I also found out the support pipe itself can act as a good receive antenna. In my case I ran RG-6 coax to the pipe and gained an antenna for general use.

## Dale's Details by Dale Maroushek NØPEY

We will get back to the exciting Army enlistment story later. I have to tell you this new event story involving our friends at Xcel Energy. I am impressed with the service we received!

On Nov. 10<sup>th</sup> about 1830 we're watching TV in different rooms when, PUUFF, the power goes out. Well, half the power, some on and some off. The neighbors have lights on and the Fire station can be seen from Mars with all its lights. I lazily figure that Xcel has lost "a leg" as it's called, and they will be fixing it soon. To refresh the issue, power comes into our homes via 3 cables, usually a black and a red "hot" line and a white neutral, with ground being supplied through that bare copper wire you see coming out of your switch panel and to the outdoors. The black and red lines each supply the nominal 110 to 120 volts to each side of your panel, with a combination of both being used to supply 220 volts for appliances etc.

We grabbed a laptop and went to the Xcel site, found the place to report an outage and did so. Then checked the interactive map and our house was on it, but no one else. Ah hah, so it's not an Xcel leg that's out, which means it's a leg into the house. I go down and remove the panel cover, grab a VOM and check the incoming lines. Black is good, red is dead! Back to the laptop and phone. I got one of those surprise connections, where I'm dialing them and they are dialing me and crash, somehow the wires get together.

He asks the usual questions and I explain that we have a leg out. He asked how I know that. I told him I had measured voltage to the incoming lines in the panel and only half our power was off. He say's OK, I'll get someone out. We prepare to wait, watching the laptop, and super surprise, 20 minutes later he arrives. We talked, and I took him to the meter on the deck. He pulls it off after telling us all the power would disappear. He then checked and sure enough found the red leg dead. Back to the truck, over to the pole at the end of the driveway, into his lift and does the check at the transformer there. Does some more inspection as he follows the lines down the pole and then came back to us. He confirmed the leg was out and the break was somewhere in our underground feed lines.

But not to worry, he would have us back up very soon. I was confused as he went back to the truck and messed around for a while, then came back up the deck steps pulling a small but very heavy wheeled cart. It had a large black wire coming out of it connected to what I recognized as a meter face flange. While he went under the deck to establish an earth ground, I let my mind wonder and figured out what was about to happen. Did you?

Since we had "one" leg, all that was needed was a transformer, with "two" legs output. The meter face flange connections could be selected to the hot terminal with a simple wire moved from the left to the right side. Power is sent down to the portable box which contains the, what would you call it, a one to one to one transformer. Anyway, 120 volts goes in, and TWO 120 volt lines come out. They go back up the wire to the house feed line connections in the meter box. Current wise, I would guess it's rated in the 60 amp area.

Then he installed the flange to the meter frame, and finally the meter, got to have that meter don't they, and presto, the house is alive again. Well that was easy so thanks to Xcel for that. He explained that other crews would contact us and come out to hopefully find where the break is between the pole and the meter. Well sure I think, Hams have meters that allow us to locate about where in a coax line a break or problem is, Xcel should be able to do that too!

So we are waiting for them to schedule a date and see what they find. Just our luck that underground wire now comes under a slab of concrete we poured 2 years ago, and under all the fall landscaping path and flower beds we just finished. And the rest of the feed line goes under the deck, about 3 feet under, to the meter. I'm not sure about this, but my electrician from the kitchen remodel told me that meters are not allowed on the deck walls anymore, but we are grandfathered in, unless problems arise. We would have to move the meter to the garage outside wall and have the house inputs lines rerun to the panel. All that is under the deck and kitchen crawl space. Our Xcel input line could then be done in the air like the neighbor, just another hole in the soffit and roof. Paid for by, guess who. Last possibility would be underground directional boring, but even that has problems. Like winter. So applause to the guys at Xcel and thanks them very much.

Meanwhile, back at the enlistment desk. The ASA recruiter had his man, which turned out to be one of hundreds of thousands of us suckers who took the bait. The top 10 per cent they said, but you had to gamble 4 years of your life, and you took a chance at clearing the security investigation just to get in, and then qualifying for a school you hoped you were interested in, (we had choices, but no guarantees). I joke about this now, and believe me, we all joked about it when we found out what a con game we had fallen for. The major solace for all us guys running to this con was simple. The whole indoctrination and interviews were based on the recruiter's assurance that the ASA was not stationed in RVN. No frontlines, no combat, no humping in rice paddies or mountains or jungle. Call me chicken or smart, or both. I served my country big time actually. Some of my input reporting on bad guy activity often went right to Nixon's morning report. All the Security services performed with honor and it is now all history. But that's much later, we haven't even been in Basic Combat Training yet.

ASA enlistee during BCT (Basic Combat Training) was basically just like the next guy. But, on that one day they sent us (8 in my platoon) over to the (love this) ASA hut, (big time top secret organization couldn't afford an office??), to see the school and order assignments. So I learned that I was still in the running for a security clearance and had been placed in a training class for Radio Traffic Analyst. Well I had maintained my request that I receive some sort of electronics education, to a blind end. RTA didn't sound like it had much to do with volts and ohms. A quick question the Sgt. In charge got that same response, it's secret and we can't tell you anymore. What a great job!

So we all (except for a few) graduate from BCT and go our separate ways. We arrive at Fort Devens, MA, Company C, and reception. Of course it's late at night 2200 + and the reception fake cadre are all just happy to see us. After they establish a quiet controlled room, it is announced that the recruiters had not lied to us about ASA in RVN. "There is no AS in Viet Nam" massive cheers!

HOWEVER, as they said, somewhere over the Pacific Flight path, you will change from ASA to RRC. What the hell is RRC? Radio Research Company, right there with all the other GI's in beautiful South Vietnam.

So much for one part of the big gamble. Next month the second gamble fails.

Dale, NØPEY

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

**Saturday December 17th, 2022 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)**

## 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.*

## Editor's Notes – by Dan Meyer, NØKFB

As you may or may not know, I am also the A/V technician for the club and provide equipment and support to bring you our meetings on Zoom. To accomplish this, I use a computer to connect Zoom meetings to the projector at CDH, I also use an audio mixer (pictured below) to get high quality audio and to and from everyone on the Zoom meeting and a Nikon DSLR camera for video. Getting this to work together is conceptually simple, but as usual the devil is in the details. John Crabtree, KC0G has experience with audio mixers and his advice has been appreciated. I learn something at every meeting, and I hope people are seeing and enjoying the improvements.





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

Well, fall didn't last too long, it seems we have jumped right into winter. The white fungus is among us!!

Yep, I'm still moving into the new house. Everything is finally out of the old house and we are on to cleaning and fixing stuff before it goes on the market. Did I ever mention that I hate moving? My CW Ops class has finished. I am significantly better at CW but still no where proficient. How does the old joke go? Oh yes: A guy walk up to a policeman and asks "How do I get to Carnegie Hall?" the cop replies: "Practice, Practice, Practice".... Well the same thing seems to hold true for Morse Code. I did how ever pass this class and I am trying to get on the air more practice and continuing with the learning tool available on the CW Ops web site. I know I am beating a dead horse, but if you are interested in learning Morse Code, I cannot recommend this class enough!

I finally have HF antennas on my roof! (See picture below) They are working well, Alas, I am still unable to join the 10m Friendly Net. The fun part is going to be deciding , buying and installing a third antenna just for this purpose. I will be starting with an end fed Zep with either a 9:1 or 4:1 balun. I own it and it is currently just sitting on the bench. While my yard is devoid of trees, the park behind me does have a few taller poplar trees, about 20' - 25'.... So it looks like Ill be trying an End Fed Zep Sloper. Hey, what the city doesn't know, the city doesn't know! .....Hi Hi.

Now that the shack is up and running, it's time to start doing more with my other hobbies . My R/C planes building is in full swing. I find I have a lot more patience now than in my youth. The quality of my building seems to be improving. I hope to have 4-6 planes ready for this spring. The great part of having this as a second hobby is that while I'm waiting for glue to dry, I can play on the radio! It's a win\win situation. Speaking of that, if any of you have any old planes or kits sitting around you want to be rid of....or build, contact me and we can talk or collaborate.

The 3D printer is still going full bore, well almost. I finally fried the extruder and had to replace it. \$30 and 3 days later, the printer was back up and running. (Thanks Amazon!) If any of you have been thinking about trying 3D printing, watch for deals at Micro Center. They had the same model as I am using (Ender 3 Pro) on sale for \$100 about a month ago. I am still kicking myself for not getting a second one. Anyway, I am hoping that they go back on sale after Thanksgiving so I can get a second one.

Speaking of Thanksgiving, I have a very controversial question to pose to the club members. I know we are supposed to avoid controversial subject and politics on the radio, but this has been eating at me for some time. My question is: "What is more important, Stuffing or the Turkey?" There, I said it, it's now out in the ether for you all to ponder.

Still tracking down parts for the CW messenger that I will hopefully be building this winter. Again, this should be a bit of an adventure for me, learning and using one of the free cad programs to design the circuit board and then send it out to be made. Plus, trouble shooting after building and testing. Since the project only has about 15 components and the software is already written by some one else, I think I can handle it.....I think.

For you fellow builders out there, It looks like MNARTS winter project will be a "Repair-a-thon" being held on Saturday, December 3rd at the Minnetonka Community Center. The meeting starts at 1:00 pm. Got a piece of equipment you would like to get working? There should be a few people there to help you trouble shoot the problem.



My antennas: The left one is 10-30 Meters the Right is 20-49 meters



Yes they are both on rotators. Do they help? I'll talk about that in a future Ground Wave  
Our next meeting will be on December 2nd I believe.....Hope to see you there!  
Till then: May your signals be strong and your antennas have extra gain....73  
Kevin Welna VP W5LNA

## **In memory of Paul March, KØLNF, Owner of the Amatuer Radio Consignment Center.**

Late notice that Paul March (KØLNF) passed away on August 26th. Paul was the owner of the Amatuer Radio Consignment Center. A video remembrance of the Consignment Center is available at <https://www.youtube.com/watch?v=tXbe50d0JXU> or [tinyurl.com/3bezpa2j](https://tinyurl.com/3bezpa2j)

## **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

## **Brrrrrr! by Pete Guldán KDØSQJ**

Well the December QST is out and the Field Day results start on page 60. I guess that makes me think about warmer weather and chowing down on some good food. Then I look out the window at the white fungus and reality rears it's ugly head. OK so how did we do? 87<sup>th</sup> out of 320 other stations that entered in our 3A category/class. For you math nerds that's the top 27<sup>th</sup> percentile. (Last year was 71<sup>st</sup> out of 253 or top 28<sup>th</sup> percentile) We again have a higher score than those other Minnesota entries with 3452 points. Last year was 3510 with 2 more QSO's. About the same but we should have done better in the bonus points than we did. We did have 3 home stations reporting with an overall combined club score of 4290 points which beats last year's 3860 by 430 points. The score is only part of the story. We did have a GOTA participant from a few years back who upgraded his license to General on November 5<sup>th</sup>. This new General has had the first of what I hope is many QSO's with his grandfather out east from his shack. Congratulations Max. The weather might be colder but I wish y'all warm thoughts of summer Field Day fun. Now I'm thinking of buying a nice big tube amplifier to keep my cat warm. 73.





At our November meeting, ARRL Dakota Division Director Bill Lippert, ACOW, presented the St Paul Radio Club a plaque recognizing the club's 90 years of membership in the ARRL. Pictured above is president Ralph Bierbaum N0AWN accepting the plaque. Below is the proclamation and plaque from the ARRL. Photos by Dawn Holmberg WX0Z

*WHEREAS, the St. Paul (MN) Radio Club found in 1931 became an American Radio Relay League Affiliated Club on November 2, 1931;*

*WHEREAS, the St. Paul Radio Club has continuously served amateurs in the Twin City area since 1931 being one of the oldest amateur radio clubs in the area;*

*WHEREAS, the St. Paul Radio Club supports the ARRL Spectrum Defense fund through donation of proceeds from its annual auction;*

*WHEREAS, the St. Paul Radio Club members support emergency communication in the area through ARES and the National Weather Service Skywarn program;*

*WHEREAS, St. Paul Radio Club provides supports for the Cretin-Durham Hall Radio Club at Cretin-Durham Hall High School include supporting the club adviser to attend ARRL's teacher institute, and;*

*WHEREAS, St. Paul Radio Club today stands as a resource to mentor new amateur radio operators including providing licensing classes and VE amateur radio license testing through the ARRL VEC program.*

*THEREFORE, be it resolved the ARRL Board of Directors hereby congratulates and recognizes the St. Paul Radio Club for its contributions to amateur radio on 90 years of ARRL affiliation.*

Motion unanimously approved with applause by the ARRL Board of Directors July 16, 2022. Moved by Bill Lippert AC0W Director Dakota Division, second by Mike Ritz W7VO Director Northwest Division.



# November Board Meeting Minutes – by Art Thell, NØIWQ

Saint Paul Radio Club

Hereinafter referred to as “SPRC”

Board Meeting Minutes

11-04-2022

Board members present, (Excused or Remote):

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

Also present:

Jay Maher-NJØM

Jeff Iverson-WB9DAN

Dale Maroushek-NØPEY

Pete Guldán-KDØSQJ

John Crabtree-KCØG

Don Kelly-WA6ZMT

Dan Meyer-NØKFB

Members Remote: 4

---

**6:00 Pres. Ralph B.** called the meeting to order.

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

President:

- Congratulations to Pete and his team on a successful Ham Cram license class. Two passed out of three. Another test session scheduled for 11/5.
- Ham of the Year 2019 award plaque for Ted Kinnear was delivered through Dale
- SPRC Letterhead: Board agreed to use the small format letterhead.
- Secretary will format return addresses for envelopes.
- 10M Friendly Net—Missed opportunity? What about a 10M antenna building group to get new techs and other local hams on HF?

Next Ham Cram will be on 3/11-12, 2023.

Moved: Lou Second: Kevin Passed.

## **Old Business:**

Secretary's Report: Art

Accept Minutes from October as published in the Ground Wave.

Move Art                      Second: Lou                      Approved

October Breakfast was well attended. Good time and lively conversation was had by all.

November Breakfast: 3<sup>rd</sup> Saturday, 11/19 9:00 AM at Denny's on University Av.

Treasurer's report: George

1. General Fund: \$7242.54, Repeater Fund: 1024.25, Education Fund \$1167.00
2. Adopt Treasurer's duties as scripted by the Secretary.
3. Add the President as a signatory to the Club bank account with the caveat that only one signature will be required.

Move to approve Items 2 and 3 of the above: Art      Second: Lou                      Approved

Copy is appended to these minutes.

Repeater Report: Dale: 2M works

Membership Report: Dale,

Renewed for 2023: 57                      Not-yet renewed: 95

The form will be included in the next Ground Wave.

Training Report: Pete—See President's comments above.

SPRC received a donation of \$100 from Linda Lee, the widow of Jim Lee WØLE in memory of Mike Sigelman KØBUD who passed away recently. An acknowledgment and 'thank you' will be sent to Ms. Lee.

## **New Business:**

Auction: January, 2023: Dale, Chair report:

Total items per seller raised to 20 from 10.

Soliciting auctioneers.

Confirmed beneficiary: ARRL Spectrum Defense Fund.

Club purchase tickets for use at auction:

Moved: Kevin                      Second: Lou                      Passed.

Don reported that ARRL now has a program for compensating clubs for new and renewing ARRL members. After a brief discussion, board members agreed not to pursue it because the return wasn't worth the additional administrative effort.

Program presenters:

In October, Br. Bob (WCØJ) reported that our January presenter will be CDH STEAM Director, Jeff Winsor. Details to follow.

We have an ongoing call for program presenters.

The question was asked: Do we have a Club website chair? Do we need one? No further discussion.

Adjourn:

Move: Art                      Second: Kevin                      Approved

**7:04: Adjourn.**

---

**Appended—SPRC Treasurer's Duties.**

---

September 14, 2022

From: St. Paul Radio Club

To: Whom it may concern.

Subject: St. Paul Radio Club Treasurer Duties.

Be it resolved that the Board of Directors of the St. Paul Radio Club, Inc. is hereby adopting the following measures regarding the handling of all receipts and expenditures in its transaction of business.

The duties of the Club Treasurer of the Saint Paul Radio Club, Inc. are to:

1. Recognize detailed deposits of funds as reported by the Membership Chairman or other.
2. Organize and maintain documents such as the single checkbook and Cash Journal to reflect all daily operations of St. Paul Radio Club following standard bookkeeping practices.
3. Reconcile the checkbook to the bank statement in order to identify open items and other issues.
4. Write checks to pay Board-approved expenditures. Single signature required.

The Treasurer does not:

1. Receive cash or checks or prepare deposits.
2. Dispense cash, unless accompanied by another club officer or designee (ex. The club auction in January or similar events).



The present Treasurer is George Power who was elected into this position on May 6, 2022 by the Membership as reflected in the Minutes of that meeting.

Arthur J. Thell  
Secretary

Board action: Adopted November 4, 2022. Also added the President as signatory. (See Board Meeting Minutes).

---

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

**Saint Paul Radio Club  
Hereinafter referred to as “SPRC”  
Member Meeting Minutes  
11-04-2022 7:30 pm**

**7:32 Call to order** by President, Ralph  
28 Members present plus Remote.

Treasurer’s Report,  
General Fund: \$7242.54, Repeater Fund, \$1024.25, Education Fund: \$1167.00

Training Report:  
Congrats. to Pete on Ham Cram. Two candidates passed out of three.

Next Ham Cram is on March 11 and 12, 2023.

Repeater Report: The 2-meter system works.

Membership: 57 have renewed. 95 have not.  
Renewal enrollment form will be included in the next Ground Wave.

VE Liaison: A new volunteer for the position is needed. Leon is retiring.

Secretary is attempting to re-craft letterhead and several other forms to one standard format.

A \$100 donation was received from Linda Lee, widow of Jim Lee (WØLE) in memory of Mike Sigelman KØBUD who passed away recently. Acknowledgement and thank you will be sent to Ms. Lee.



Program: Jessie Botello (KD9VOL) of CDH reported at length on her week-long trip to ARRL Headquarters including earning her Novice License. Other regional teachers were in attendance and interacted. Some were licensed Hams. They were exposed to basic electronics, waves, Ham-Sat, fox hunting, and programming fundamentals among others.

SPRC needs someone to take over as coordinator of the "Worked all Counties" program.

Report by Dakota Division Director, Bill Lippert (ACØW):

He thanked SPRC for its 90-year affiliation with ARRL.

Rules for 2023 Field Day are being reviewed and revised.

Noted the various ARRL Education Fund programs that can be applied for.

Reported on various spectrum competition issues that are a continuous threat to Ham Radio.

**Club Breakfast:** Third Saturday, November 19 at 9:00.

Place: Denny's on University Ave. Across from the Ax-Man.

The October Breakfast was well attended with lively conversation all around.

**Adjourn: 8:52**

---

## For Sale

If you are interested in any of these items please contact John, KB9GWF at john33-360@hotmail.com for details.

Kenwood TS-940S with hand microphone and manual

Kenwood IF232-C . This is a TS-940S to RS-232 interface w/manual

MFJ Versa Tuner II (MFJ-949D)

Approx. 100' RG213U coax

8' ground rod

MFJ Low Pass Filter

He also has a Vibroplex Brass Racer Iambic key that he's not sure he wants to part with, but says anything is negotiable.

## 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 Dec 2 6PM SPRC Board meeting, Commons Meeting Room,  
John R. Albers Center, Cretin-Derham Hall High School. \*
- Fri Dec 2 7PM SPRC Membership meeting and Holiday Party. Commons Meeting Room,  
John R. Albers Center, Cretin-Derham Hall High School.
- Sat Dec 3 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@arrl.net or 651-425-0338.
- Sat Dec 17 9AM SPRC Breakfast. Denny's, 1664 University Ave, west of Snelling.
- 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@arrl.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.

*\* 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: Dec 2, 2022 06:00 PM Central Time (US and Canada)

Dec 2, 2022 06:00 PM

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-3xmClbjad8r0nMOj11QBKvI84TMYpnJO7E>