

 <p>www.arrl.org</p>		<p align="center">St. Paul Radio Club</p> <p align="center">Ground Wave</p> <p align="center"><i>Dan Meyer, NØKFB, Editor</i> <i>Dale Maroushek, NØPEY, Publisher</i> http://www.magicrepeater.net/sprc.htm</p>	<p align="center">KØAGF</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>
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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 March 2023 – Volume 83, Issue 4

NEXT MEETING: FRIDAY March 31, 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 at 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 April Program will be presented by Don Kelly (WA6ZMT) will fill us in on two significant activities that our members and our club may be interested in this year. As you may have read in QST, 2023 is ARRL's "Year of the Volunteer" recognizing the contributions of the volunteers who far outnumber ARRL staff. A year-long event, "Volunteers on the Air" (VOTA) is underway involving contacts between ARRL members and ARRL volunteers and between hams and W1AW portable stations in every US state and some territories. Every ARRL member and club has an opportunity to "be" W1AW during this event.

Also, planning is underway to have an ARRL Section Convention in Minneapolis on October 14th. Don will talk about opportunities for SPRC and its members to support the event and, of course, for its members to attend the event.

Don Kelly was talked into becoming a ham by friends at Indiana University in 1962. Inability to get past 5wpm of CW limited him to Novice and Tech licenses until the code requirement was dropped and General was a possibility; he upgraded to Extra a couple years ago so he would never need to take another test. Don has been an active SPRC member since 2005 “retiring” last spring as Past President. An ARRL Life Member since 1962, he recently accepted the responsibility of ARRL Affiliated Club Coordinator for the Minnesota Section.

Photos from the March meeting by Dawn Holmberg WXØZ



Above: Matt Kaskavitch, K0LWC giving his presentation.

Below: Q&A After the presentation.



Dale's Details by Dale Maroushek NØPEY

The old proverb of March coming in like a (lion or lamb) and going out inversely came true. We fired up with the wonderful meeting on the 3rd, VE testing on the 4th, Breakfast on the 11th, cram jam on the 11th and 12th with VE testing (2) producing at least five new ones this month, and a table at Buffalo on the 18th. And the weather sucked the whole time!

Cram jam was a slow one, but gained an old novice his extra in one sitting. The youngster missed by one and we will see him and his dad again next month. Applaud Pete for making these training sessions available, and I think it is a viable way to recruit, but we need more students.

Sorry to say, by the end of cram jam, about 1800 Deb and I were both sick with cold systems etc. She tested for Covid, I did not. It stayed that way for the week, and now both are clear but careful. My contacts from previous meetings reported nothing, so hopefully I'm not a spreader.

George and the gang took over the Buffalo table manning and from reports, I hear it was nothing to cheer about. Read on about the May Progressive Hamfest 2023 on the 12th.

Next Fest is Superior, WI on the 5th, used to be a short drive but with gas prices up, not so much. Car/van pool is an option, or just stay home and plan your own yard sale. Gather your overstock, clear your junk boxes, sell the old dusty stuff right in your front yard! Why bother to do all that packing and unpacking and repacking and unpacking again? No seller or buyer charges, just send me your location info and I will send it to the data base (300+) and they can find you, shop and move along to the next from 8 to noon. Ray and I have had good success with this the last two years, so join us and make your crap into cash.

St. Patty's day came and went, but with family out of town, we are doing a thing on the 26th. Lots of baked corned beef, Rueben and wonderful CB and Cabbage. If I make too much, you may get some at FD

Meanwhile back at the 175th RRC in beautiful South Viet Nam.

Small job description. What does a Radio Traffic Analyst do? Let's say you are a new Ham in town and haven't researched via today's world of Google and websites all the fun things you could find. So you hear 10 Meters is open and start scrolling up and down listening for some communications. Suddenly, this beautiful SSB station blasts into your house, "this is NOPEY, Dale, with the St. Paul Radio Club's Friendly Net, here at 1930 hour every Wednesday night from Maplewood MN, on 28.310 Mhz, taking check ins now, who is out there? Then you hear many stations returning the call and "checking in".

Congratulations, you are now a Radio Traffic Analyst! You just identified a Voice communications net that takes place on Wednesday evening at 1930 hour on the frequency of 28.310 Mhz, and that Dale, NOPEY is net control in Maplewood, MN. Listening more, either now or later, you find others that "check in" to the net and add to the size of the net. So easy right? But, over there it is all done in CW at 13 to 20 WPM! I joke about our "Diddi bops" as we called them, sitting in from of the R-390, big old Royal typewriter, with 6 ply (real carbon paper) running thru it, headphones above the ears (don't want that static blast directly) smoking cigs and drinking coffee while talking to the guy next to him about his girl back home. They copied it, I only analyzed it, but we had to learn basic code garbles and the lay out it was copied in.

However, although we were the top 10% of enlistees, Army tradition required us too "work into the job." We had little rank and virtually no say in this matter, so you just did it, until you got the call to move up into another job/area. They gave us stacks of carbon copies of all the intercept copy for us to "sort" by TX callsign: ABC DE DEF. REMEMBER this is 1968, very early computer age and nothing like input/sorting of today. So we were the sorters. 26 letters, divided by five, five letters per stack around the center pile, until the daily input from 25 position is done, then go back and re-sort each pile by five again and one more time to get to the a b c of who sent what to whom. Now you look for the same Tx to other Rx's, or some Rx's calling one Tx, starting to build a net. If, by some chance, you found something that looked interesting, you were obligated to pass it along to someone else to improve on it, not your job! The Army way!

So we sorted traffic for a couple months until new people came in and old people left us. It was a 12 month tour (poor word but) that means movement. So first I got assigned to the Reporting Section, and found it not conducive to my talents and liking, and they actually let me move to a real analyst position. I joined another guy from Deer River, MN, and we worked very well together and did some fine work, although without great reward. I thought rank would improve with good work, but was proven wrong as due to that 12 month rotation thing, everyone was stacked up all over the world. It came down to unless you wanted to re-enlist, you were not getting promoted.

Now Specialist 5 Longo, another MN guy, who had been doing a great job, came up for rotation and out of the Army. When he went in for his exit interview, the team of Sargent's asked him: "if we do right by you, will you do right by us?" He said "yes". So they promoted him to E-6 and he enjoyed two weeks as an NCO and went home to process out of the Army. Really teed off the Sargents.

We will come back to that, but let's go over to the Club for some refreshments. Military Clubs are financed by money from tax dollars, and may or may not be the best investments we make in the military. Enlisted Men's Clubs are there for the ranks of E-1 thru E-4/5 depending on location. They can only serve beer. Once you make E-5/6, you are welcome at the NCO (non-commissioned officer) Club. They have all the drinks you want. So, at the 175th, before I got near it, they had two hooch's next to each other and one was NCO and one EM Club. So a stage and party room were built between them and all were welcome as were the drinks. The stage hosted music shows, mostly Orientals doing covers for American songs, and very well done. If we had big names, they were usually country western. I saw Roy Acuff and Johnny Cash. Alongside of that was the Movie Theater! Big open area plywood screen and lots of benches with a projection booth up back. Wet or dry, when it got dark the movie ran, usually pretty current but many oldies. Short observation about our rain poncho, designed to protect our head and gear we carried, and then collect all the water and deposit it on our knees to run down into your boots.

A short walk over to the Mess Hall when it was operating, Breakfast lunch and dinner, no specials available. We found our old cooks from Fort Devens making hash there. They figured the \$65 a month hazard pay was worth it. The food was not bad, but the lines were long sometimes and the heat or rain made standing in line a bitch. My favorite recall is we were in the Dry Season during Nov and Dec 1968, and it rained on both holidays, and not any other days! The NCO's and Officers were of course sectioned off of the regular seating area. Always special. I'll only remember doing this on my birthday, but there was also an Officers Club just down the road, and legal or not, you could stop by the kitchen window and for \$10(like 5% of your monthly pay) you could get a real grilled steak and potato dinner. Also in that area was the infamous "Donut Dollies" room. They came to each area camps too, but they were there to entertain us and remind us of what American women looked like once in a while. Board games, party games, puzzles and cards were used to make the best of talking to them. Do not touch though!

There was also a library hooch, why we don't know. It was manned by a very misplaced Specialist, he was a highly trained large radar technician, like the kind we had on Shemya, AK (google that for fun). He didn't know jack about an R-390A! But he needed a place somewhere.

Living conditions, in general, if you were on a large established base, things were very good. If you were on anything less, the comfort decreases with the distance from the beer. A hooch was an approximate 20 X 40 foot concrete slab with a tin roof and half sided building with doors on the center of each end. Half sided means screened opening above and below your torso levels, for ventilation. Each Cube was an outer wall/your cot/small desk and dressing area/two double lockers...back to back with the next cube which was a reverse layout all the way up. The hooch NCO got the front room, a bit larger and with a door that locked! Made home for a dozen guys. We had many lines of these with Latrines spaced accordingly. When it all worked, it was running hot water, showers and toilets. If not you used the "three seater" outhouse and prayed for rain. Each of the latrines was also an electric feed point from a high line, and broken down to hooch top connections down the row, with each cube having a hanging light and an outlet. We weren't supposed to cook, but imagine the load with 12 guys using the light, a fan or two, tape deck and stereo in a very dry or very wet wooden building. If there was a fire extinguisher I don't recall one.

Around the hooch was the blast wall, a stack of sandbags 4 feet high. Between ever other hooch we had a sandbag bunker. Well, sandbags get old and worn, so the Army contracted with the Pacific Architects and Engineers, (the VN commercial contractor our tax dollars paid for) to build a more permanent bunker/blast wall system. They jumped right on it and soon we had deliveries of stacks of 2x4 lumber, half curved culvert and sheet steel piling up in the open space. Soon after, they determined they would be able to get the man power to put it together in about 1972! Yup, we became the construction crews, the men in each area had to first disassemble the old mess, pile up the sand, and rebuild the system around our area. Luckily, it happened in between the wet and dry season, so we didn't get soaked or burnt to a crisp doing it.

I'm near the end of the page, so let me say a couple other things. Yes, it sounds like we had it made compared to a front line soldier and I admit we did. One day, I came back to my bunk and I found another GI hanging around the back door. He was dirty and scared, armed with his M-16 (we only had M-14s) and not a good communicator. His shoulder patch was from a Division way north of us. He was hungry, but I couldn't take him to the mess hall because an NCO would ask for his ID and he would be in trouble. I had snack food in my locker and gave it to him, and we chatted. Yes, he was AWOL, bought down to an infirmary but ran and was hiding out until the MP's found him. His short tales of what it was like to be in a firefight were enough to make me appreciate the extra year of enlistment it cost me too be where I was.

OK, one more for May and then we meet at FD and do it verbally If you are interested.

Dale Maroushek, NOPEY

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

Happy Spring!! Well almost. Its March 20th as I write this\next months Ground Wave article and the weather is starting to turn! Fingers crossed we are over the worst of it.

We FINALLY sold the old house. So happy to be back to a one-house home owner. Plus, I was able to convince the XYL – A.K.A. She Who Must Be Obeyed to free up a bit of the proceeds from the sale to fund my latest wild hare, a laser engraver\cutter. Yep more stuff to learn how setup, configure and use! I can't wait! It's not big or fancy, but it will hopefully be able to cut through balsa wood and plywood. They claim it will, we shall see..... I have enough model aircraft plans and kits to keep me busy for the next 10-15 years cutting and building and the list keeps growing! The laser cutter should speed up the process of creating a kit to build by accurately cutting out all the the little parts....I hope anyway. he laser engraver\cutter should be here by this coming Wednesday if you can believe UPS. More on this in future ground waves.

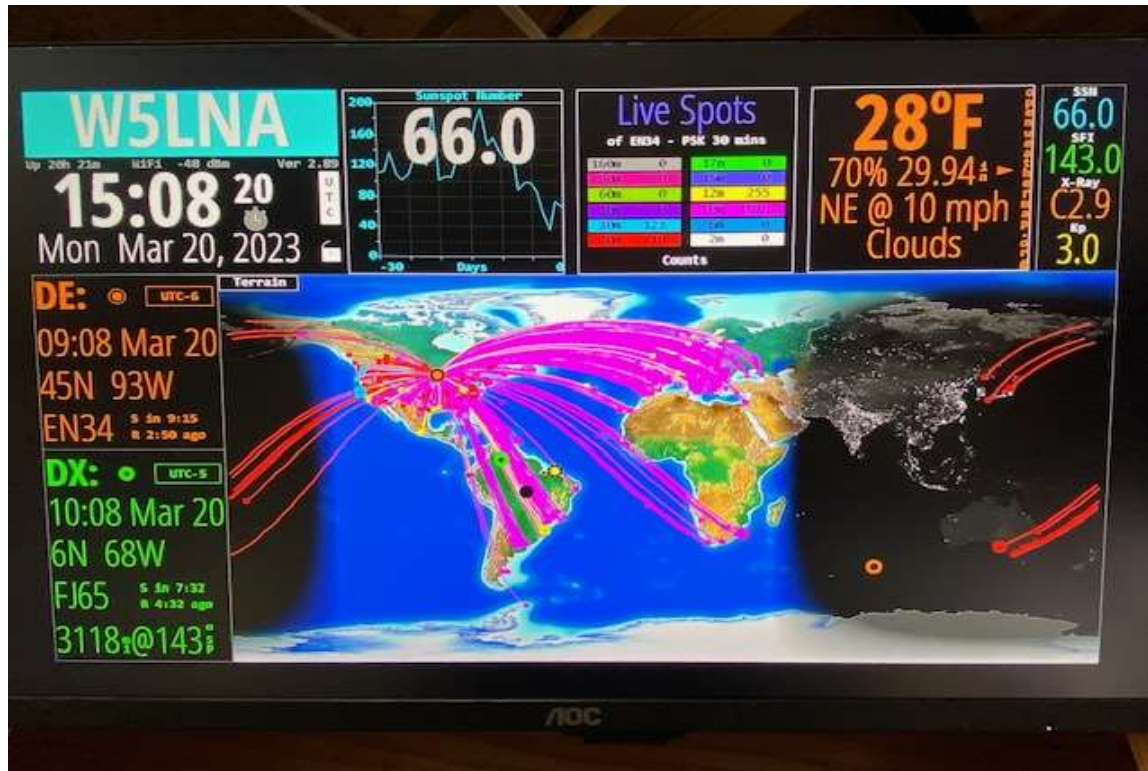
A while back I wrote an article on using a Raspberry PI to make a world HAM clock. Well since then they have upgraded the program to include a lot more features. One of the latest features shows propagation of I think WSPR beacons. Pretty cool to get a visual rendering of what is going on RF wise world wide. Anyway it was a fun project and not too expensive. I used an old monitor that I had laying around and Raspberry Pi 4 (Back when they were affordable). I believe it will function fine on a Raspberry PI 3 or 3 B+ (These are still only about \$40 if you shop around). The program is already written so all you have to do is load it onto the Raspberry PI, configure it to access your home WIFI and plug it in. Easy Peasy

(continued on next page)

Here is the link to the website: <https://www.clearskyinstitute.com/ham/HamClock/>

Live a little and give it a try!

Here is a screen shot of my clock:

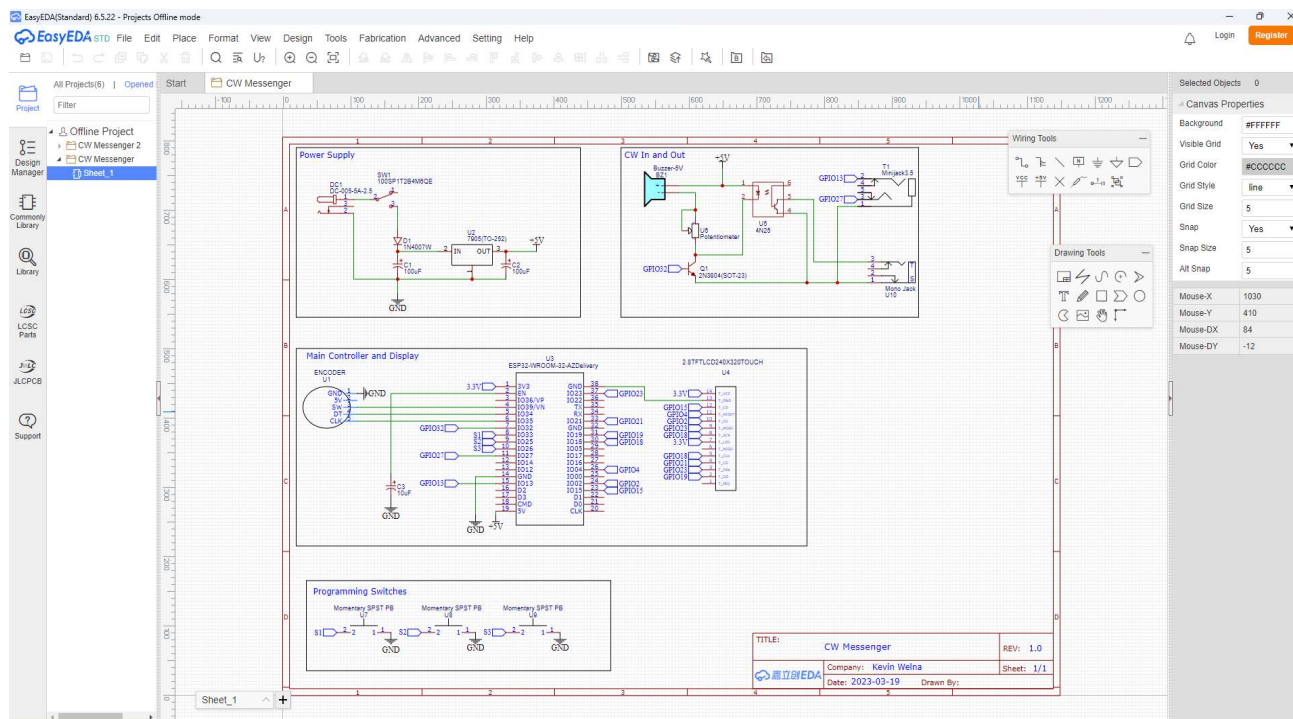


The different colors represent different bands. Its not a very good picture but all the colors shown in Live spots are being displayed on the map. The bright pink represents 10m the orange\red is 20m yellow is 12m. Kinda cool Huh?

OK Ham project time. The Memory Keyer is coming along nicely. It took me about an hour to reorganize and group the components like they show on the You Tube Tutorial. Super easy to do but since this is the first time I have ever done something like this, I took my time and tried to make it pretty and easy to read. I also tried a few of the techniques they showed on linking parts to each other. So I used tags as well as lines. Again Super easy. Remember the computer program is free so it will cost you nothing but a bit of time to down load install and play with the software. Why not give it a try? Here is the link: <https://easyeda.com/>

So far I think I have about 3-4 hours into finding a design, loading the software, finding the parts in the software's library, (This took the longest time of anything.) and linking up the components. Components are grouped by function area So I have a Power, CW in and Out Section, Main Controller and Display and a Programming Buttons section\ group. I was amazed at how easy it was to do. Once you have the component on the work space.

Here is a screen shot:



Again, the video really helped! <https://www.youtube.com/watch?v=MdcnkaAoDTE>

I'm still working on my Morse Code and instant character recognition. I have made a few more contacts, mostly with POTA (<https://parksontheair.com/>) activators and SST. (<http://www.k1usn.com/sst.html>). I really need to practice more, but my hobby ADHD is getting in the way, HI HI. Hopefully, now that the house is sold, I will have more time to devote to Ham Radio and improving my Morse Code proficiency. Again, I can not stress enough how much the free classes offered by CW Ops (<https://cwops.org/>) have helped me on this journey. Classes are still free so what do you have to loose? Take a class and give it a try!

After the "slight" mishap with my latest stick and tissue model. It is almost finished. Finished weight is 17 grams, that's 0.6oz for you non-metric guys. It turned out OK, but not great.

Here is a pix of the Westland Welkin model plane repaired but sans prop spinners. Ready for a test\maiden flight once the snow is gone:



Time to build something else? Oh Yes!! I have learned my lesson on small model planes though. My hands are too big and unsteady and my eyesight too poor for the little itty bitty parts. Nothing smaller than 30 inch wing spans from now on. Next stick and tissue model on the building board? I think it will be a WACO YMF 5 with a 35"- 36" Wingspan. Its a Dumas kit (<https://www.dumasproducts.com/>) that I should be able to radio control using some extra light gear. And a brushless motor. More to follow on this in future Ground Waves.

By the way, model plane building is a great past time while doing ham radio. As you can usually stop building and jump on the air or take a radio break between gluing sessions.

Speaking of poor eyesight. A friend gave me a magnifying glass head set that works GREAT! It is totally adjustable and has a built adjustable light. It comes with 5 different power lenses and is fairly comfortable to wear. I highly recommend them if you are doing any kind of close up work (Soldering\Model Building). They cost about \$18 -\$19 and are well worth the money.

Here's the link: <https://www.amazon.com/s?k=yoctosun&crid=2L1G404IVX6A5&srefix=yoctosun>

and a picture.



No that Spring is just around the corner (I hope). It's time to get out that portable gear, find a nice spot in a park, toss an antenna up into a tree and get on the air. Maybe do a POTA activation? With the bands opening up you can even go QRP with a small inexpensive rig and be successful. Give it try. I think I will keep my go box in my car this summer so I can jump on the air when the mood strikes. I may even get a QRP rig in the near future. Actually QRP Labs has a great kit that won't bust the bank. Its about \$60 and is only a single band CW transceiver but hey what do you expect for \$55. <https://grp-labs.com/qcxp.html>

If you are willing to spend a few more dollars, There are good multi-band, multi-mode QRP options starting at around \$150 available on Amazon. Check them out! I do have my eye on a couple of them....hmmm I wonder what the wife will say.....

That should do it for this month.

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

Kevin Welna VP
W5LNA

The article to the right titled "The Origin of '73'" was contributed by Ralph NOAWN. He believes he may have seen this in a past issue of QST.

The Origin of "73"

This account by L.R. Moreau first appeared in the SPARK GAP TIMES, the journal of the Old Timers Club of the USA. I feel it might help put an end to those "73's," "Very best 73's," and "Seventy-thirds" used on the bands by "them wot don't know no better."

The traditional expression "73" dates from early land-line telegraph days. You can find it in the earliest editions of the "numerical codes," with definitions that are variations on the same idea. "73" indicated that the end, or signature, was coming up.

The *National Telegraphic Review Operator's Guide*, first published in April 1857, shows "73," meaning, "My love to you"! Succeeding issues continued to give this definition. Yet some of the other numeric codes in use back then had the same meanings as today.

Before long, the meaning of "73" drifted away from "My love to you." Another publication, the *National Telegraphic Convention*, defined "73" as a vague sign of fraternalism—just a friendly greeting between operators. It was so used on all wires for many years.

In 1859, the Western Union Company set up the "92 Code," a list of numerals from 1 to 92 that referred to a series of prepared phrases for use on the wires. In the 92 Code, "73" changes from a fraternal sign to a flowery "Accept my compliments"—in keeping with the florid language of the era.

Telegraphy manuals published between 1859 and 1900 show variations of this more straightforward meaning. Dodge's *The Telegrapher Instructor* shows it as "compliments," but Theodore Edison's *Telegraphy Self-Taught* reports a return to "accept my compliments." Finally, a 1908 edition of the Dodge manual gives today's definition, "best regards," though a backward look in another part of that work also lists "compliments."

"Best regards" has remained the literal definition of "73" ever since, but more recently "73" has re-acquired overtones of a warmer meaning. Amateurs use it today as James Reid intended so long ago—as a friendly word between operators.

submitted by H. Pain, G3ATH to (and appearing in) the Southwestern Virginia Wireless Assoc. March '93 "Groundwave". Bill Svec, WA4BKW, edits "Groundwave."

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

WANTED

Wanted - travelers for Hamvention. Room for folks to join me for the trek to Hamvention, May 19-21, with travel days adding 17-18 and 22. Large, well equipped RV with camping on-site at the event. That means we're inside the gate all the time. No waiting for the gates to open in the morning, or fighting the traffic to just get there. For questions or interest, please contact Evelyn, WB0VHF. wb0vhf@gmail.com or 952-923-3349

Random Notes from the Editor by Dan Meyer N0KFB

Last month I wrote about the radio merit badge which I hope you found interesting. This month's merit badge topic is even more important: electrical safety. As licensed amateur radio operators we tend to take electrical safety for granted. Don't do this! Take a few minutes to think about electrical safety. How would you deal with someone who is being electrocuted by a live wire? What should you do when seeking shelter in a lightning storm? Take a look at the requirements to get a merit badge in electricity at <https://tinyurl.com/2vvzhcu7> or [https://filestore.scouting.org/filestore/Merit_Badge_ReqandRes/35886\(21\)Electricity_REQ.pdf](https://filestore.scouting.org/filestore/Merit_Badge_ReqandRes/35886(21)Electricity_REQ.pdf)

Board Meeting Minutes – by Art Thell, NØIWQ

Saint Paul Radio Club

Hereinafter referred to as “SPRC”

Board Meeting Minutes

3-03-2023

Board members present: (present *)

Ralph Bierbaum-(Pres.)-NØAWN8*

Art Thell (Secy.)-NØIWQ*

Br. Bob Walsh-WCØJ *

Lou Michaels (Pres.)-WD8NOV

Kevin Welna (V. Pres.)-W5LNA *

George Power- (Treas.)-KØGCP*

Ben Otto-KEØRFZ *

Also present:

Jay Maher-NJØM

Jeff Iverson-WB9DAN

Dale Maroushek-NØPEY*

Pete Guldán-KDØSQJ*

John Crabtree-KCØG

Don Kelly-WA6ZM R

Dan Meyer-NØKFB*

Janet Bierbaum KDØBZZ*

Dawn Holmberg-KXØZZ*

Members on Zoom: R

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

President: Call for added agenda items: _None_____

Old Business:

Secretary's Report: Art move:

Amend the Member Minutes to reflect date change on March Breakfast from 3/18 to 3/11. And approval last month's Minutes as published in the Ground Wave to reflect the noted change:

Move to accept: Art

Second George

Approved

Please note:

April meetings rescheduled to March 31.

March Breakfast rescheduled to the 2nd Saturday, March 11

Midwinter Madness Hamfest is on March 18 at Buffalo, MN.

Treasurer's report: George

General Fund: _\$9739.84, Repeater Fund: _\$1204.25, Education Fund: _\$1307.00_,

Total Cash on Hand: _\$12,251.09_.

Activity: Exp.: \$80 Minnesota Wireless

\$60 Midwinter Madness SPRC Club table

\$88.38 Website renewal]

Income: \$166 USPS check reversal

Move to accept: Art

Second Kevin

Approved

Final Auction Report: Comments made but approval not completed. Added to April Board meeting agenda.

Donation to the ARRL Spectrum Defense Fund. Discussion resulted in a proposal that the SPRC donate \$2500 to that fund.

Moved: Art

Second: Kevin

Approved

Repeater Report: Dale:

System works

Membership Report: Dale,

121 paid members

Training Report: Pete

Ham Cram Technician Class on 3/11. Testing on 3/12, at CDH.

Genera & Extra Classes beginning 3/19. (Instructors needed!)

Plan is 2:00 for General and 3:00 for Extra Class.

One chapter per week. Skip Easter Sunday.

Already licensed Hams would have free access for refresher course.

Field Day: June 23-25. Pete checking on Benson's Airport.

Various members chairing food, power, shelters, tables/chairs, operating stations.& antennas.

We encourage members to assist and plan to participate in the various operating modes.

New Business:

Br. Bob noted that two CDH teachers have expressed interest in attending the ARRL Teacher's Institute in CT.

Move to sponsor a maximum of \$400 for tuition to the Institute. Caveat added that they attempt to obtain an Amateur License and report to the Club.

Moved: Kevin

Second: Art

Approved

Don K. noted that SPRC has an opportunity to support the Minnesota Amateur Convention planning group that is attempting to host the next ARRL Convention in Minnesota. The move was made to allocate \$200 to support that effort.

Moved: Kevin

Second: Art

Approved

Adjourn:

Move: Art

Second: Kevin

Approved

7:02: Adjourn.

Membership Meeting Minutes – by Art Thell, NØIWQ

Saint Paul Radio Club

Hereinafter referred to as “SPRC”

Member Meeting Minutes

03-03-2023 7:30 pm

7:30 Call to order by Pres. Ralph._

___24___ Members present plus Remote.

Please note:

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March Breakfast rescheduled to the 2nd Saturday, March 11

Midwinter Madness Hamfest is on March 18 at Buffalo, MN.

Treasurer’s report: George

General Fund: _\$9739.84, Repeater Fund: _\$1204.25_, Education Fund: _\$1307.00_,

Total Cash on Hand: _\$12,251.09_.

Membership report, Dale: 121

Repeater Report, Dale: System works

Worked all Counties, MN, Dale: Needs chair for set-up and contest.

Dawn Holmberg, WXØZ, and Janet Bierbaum, KDØBZZ volunteered.

Final Auction Report: As noted in the February Minutes.

Training Report: Pete

Ham Cram Technician Class on 3/11. Testing on 3/12, (at CDH)

Genera & Extra Classes beginning 3/19. (Instructors needed!) (Virtual)

Plan is 2:00 for General and 3:00 for Extra Class.

One chapter per week. Skip Easter Sunday.

Already licensed Hams would have free access for refresher course.

Field Day:

June 23-25. Help needed!

Pete checking on Benson’s Airport.

Various members chairing food, power, shelters, tables/chairs, operating stations. & antennas.

We encourage members to assist and plan to participate in the various operating modes.

Other operating events:

None formal. Don't forget—POTA & SOTA hunters are always needed for those efforts on HF bands. Also many assorted contests ongoing. For newly-licensed hams--A great activity to get your feet wet operating.

Adjourn: 7:50

Program:

Matthew Kaskavitch, KØLWC

Presented an interesting program on "Social Media and Amateur Radio".

Photos from Ham Cram by Dawn Holmberg WXØZ



SPRC Banquet 2023

SHORTWAVE LISTENING TOOK ME TO CHINA...FREE!

How getting a QSL led me to the Great Wall



**Hear the story at The Saint Paul Radio Club Banquet
at Jameson's Restaurant on Saturday, April 22nd.**

Our banquet venue last year worked out well so we will be returning to Jameson's Irish Bar (886 Smith Ave S, West St Paul, MN) for the 2023 Banquet. 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, you can hang out near the bar. We have an excellent speaker this year (see below) to take us on a vicarious travel experience to China. To finish the night we'll award the Member of the Year and draw for a few door prizes.

Our Banquet speaker will be Dr. Richard Weil, KW0U. I would encourage you to check out his QRZ page as I can not do justice to the range of his experience in this space. He began his radio journey with shortwave listening and has earned every commercial FCC license offered, worked all US counties, all 40 CQ zones and collected over 2600 prefixes and 380 islands. From an attic dipole in his St. Paul condo, he has confirmed 272 entities on 20 meter phone. Richard received his doctorate in geography from Rutgers and currently teaches online with Southern New Hampshire University. Travel is a passion and he has visited well over 100 DXCC entities. Shortwave listening and knowledge of geography came together in 2013 and Richard won a contest sponsored by China Radio International. Come and hear how that win took him to Beijing and Xi'an (think terra cotta soldiers and The Silk Road). *(Continued on the next page)*

SPRC Banquet 2023 *(continued from previous page)*

What : SPRC 2023 Banquet

When: Saturday, April 22nd 2023. 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 by **the deadline of April 10th**. 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 with 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 and *please do not try to mail* beforehand. I will still be home-bound for the meeting 3/31 so you won't be able to contact me or pay there either.

Questions: email me at jay@umn.edu

St. Paul Radio Club Breakfast

Saturday February 18th, 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)**

Officer Contact Information

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

SPRC Calendar

Fri Mar 31 6PM SPRC Board meeting, Commons Meeting Room,
John R. Albers Center, Cretin-Derham Hall High School. *

Fri Mar 31 7PM Socializing followed by 7:30 PM SPRC Membership meeting.
Commons Meeting Room, John R. Albers Center, Cretin-Derham Hall High School.

Sat Apr 1 10AM 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 Apr 15 9AM SPRC Breakfast. Denny's, 1664 University Ave, west of Snelling.

Tue Apr 18 Happy Tax Day!

Sat Apr 22 5:30 – 9:30 pm Saint Paul Radio Club Banquet.
Jameson's Irish Bar, 886 Smith Ave S, West Saint Paul.
See signup information elsewhere in this edition of The Ground Wave

Fri May 5 6PM SPRC Board meeting, Commons Meeting Room,
John R. Albers Center, Cretin-Derham Hall High School. *

Fri May 5 7PM Socializing followed by 7:30 PM SPRC Membership meeting.
Commons Meeting Room, John R. Albers Center, Cretin-Derham Hall High School.

Sat May 6 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 May 20 9AM SPRC Breakfast. Denny's, 1664 University Ave, west of Snelling.
** 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 are not familiar with Zoom and would like to arrange to practice, text Don at 651 276-4838 or email dk@donkelly.biz.

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

Topic: SPRC Monthly Meeting

Time: Mar 31, 2023 06:00 PM Central Time (US and Canada)

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?](https://us02web.zoom.us/meeting/tZMlf-uvpz8uGdAS6lYyFBq9uL1cXxTVtmJ-/ics?icsToken=98tyKuGvpjMoHd2RtBqDRpwEGoqga-3xmClbjad8r0nMOjl1QBKvI84TMYpnJO7E)

[icsToken=98tyKuGvpjMoHd2RtBqDRpwEGoqga-3xmClbjad8r0nMOjl1QBKvI84TMYpnJO7E](https://us02web.zoom.us/meeting/tZMlf-uvpz8uGdAS6lYyFBq9uL1cXxTVtmJ-/ics?icsToken=98tyKuGvpjMoHd2RtBqDRpwEGoqga-3xmClbjad8r0nMOjl1QBKvI84TMYpnJO7E)