



Saint Paul Radio Club, Inc.

www.stpaulradioclub.org

The Ground Wave

March 2008



Opportunities abound this spring to become trained to support the National Weather Service's Skywarn program.

On Saturday, March 15th, the St. Paul Radio Club will host a free four-hour entry-level class at the University of St. Thomas from 9:00 a.m. to 1:00 p.m. in MHC Room 155 (our regular meeting room—see directions in the March meeting announcement). Contact **Dallas Fogg, NØLKD**, at 651 644-2361 or skywarn <at> stpaulradio.org to register or for more information.

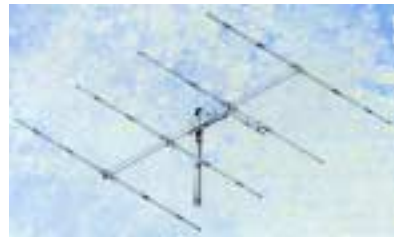
On Saturday, April 5th, you can join storm spotters from across the state for the 3rd annual Minnesota Skywarn Workshop at UST's O'Shaughnessy Education Center. It will be a full-day severe weather conference designed to train you in spotting techniques, equip you with information about the latest in weather technology, and connect you with other Skywarn communities from across the state.

The pre-workshop registration fee is \$10 (on-site registration will not be available). See the agenda and register at www.mnskywarnworkshop.org.

Saint Paul Radio Club Meeting
Friday, March 7th, 2008, 7:30 p.m.
Socializing 7:00 - 7:30 p.m.

University of St. Thomas
Murray-Herrick Campus Center, Room 155

Note: Socializing will be in the rotunda outside Room 155.
Another group has the room until 7:30 p.m.



Randy Gawtry, KØCBH **Measuring Antennas and Transmission Lines**



Randy Gawtry, KØCBH, will discuss and demonstrate the use of the Timewave TZ-900 AntennaSmith™ antenna analyzer to measure the characteristics of antennas and transmission lines. The talk will include application of the measurements to solve real antenna problems.

Randy has been a ham since 1960 and president of Timewave Technology Inc since 1984. His technical expertise is in the fields of communications and instrumentation. His career has literally covered the spectrum from D.C. to light and the environment from underground and underwater to space. Randy is a member of the St. Paul Radio Club.

Directions to Meeting: Take the Cretin-Vandalia exit from I94 and take Cretin Avenue six blocks south to the St. Thomas campus. Murray-Herrick Campus Center, site of the meeting, is off of Cleveland Ave. South, which is two blocks east of Cretin. Enter the parking lot from Cleveland Avenue South, between Ashland and Portland Avenues. Go in the door at the west end of the parking lot and turn right after the second set of double doors, then around through an open area to **Room 155, on the 1st floor**.

Parking permits are not needed after 6 p.m. on Fridays in the red and yellow lots.

Maps are available at www.stthomas.edu/campusmaps/stpaul.asp. The color version is easier to read but takes longer to download than the black and white version. MHC is #5 on the map; the most convenient parking is lot G..

Monitor the club repeater, KØAGF, for talk-in help. 145.31—no tone needed

NOOZ from the PREZ

SPRC had a small group at the University of St. Thomas for the **MN QSO Party** February 2nd, after announcing it only the night before at the SPRC meeting. **Jim Klassen, KBØUAZ**, made most of the 41 contacts. **Tom Sturm, NØBGO** made quite a few contacts, and I made the fewest. 20 meters was the most active band, although Jim made a contact on 10 meters! 20 meters was up and down in the morning, but better in the afternoon. I spent time in the lab fiddling around with my SDR radio. Tom worked on the new repeater controller, with some kibitzing from Jim later in the afternoon.

Brian McInerney, NØBM, reported that he was able to operate for only an hour but designated over 20,000 points, including multipliers, to SPRC. Other SPRC-designated points will turn up on the WØAA website eventually and we can see where we stand in the MN QSO party.

Mert Nellis, WØUFO, offered to assist Circuit Builders with their SDR radios at his house, following the tax-free sale at the candy store. I seemed to be the only Circuit Builder there. I took Mert up on his kind offer and followed him home, not very far from the candy store, so he could look at my radio.

Mert has a small room dedicated to his electronics projects. My SDR radio wouldn't receive (let alone transmit), yet the oscillator is oscillating and the radio is receiving power. Mert will check a lot more things on the radio. Mert's wife **Joyce** complimented me on my nice-looking St. Paul Radio Club polo shirt and she told Mert that he should get one. Her timing was good, since orders are now being taken for SPRC Wearables (see article elsewhere in this GW).

I have no coaxes coming into my house at the moment, having removed them from where they ran in alongside a window AC, when I got rid of the old AC while getting new windows put in.

I started putting a hole in an outside wall for coaxes, and got as far as making a hole on the inside of the outside wall, but haven't gotten as far as making the hole go all the way in from the the outside, because I didn't relish standing in a foot of snow in Arctic cold to drill the hole from the outside. Then I got sidetracked on fixing up my next desktop computer.

At the TwinsLAN Tailgate Swapfest last June, St. Olaf College was selling used Gateway E Series computers off the back of a big truck, for \$60 each. These computers have 1.80GHz processors. The hard drive is 37G, plenty enough for my use. The computers were sold without operating systems

I waited too long to set up the "new" computer. Gateway was sold to MPC and the drivers and BIOS update for the E Series are no longer on the Internet. Fortunately, **Keith Miller, AGØH**, who also bought one of these computers, had downloaded the needed drivers and update and gave a copy of them to me on a CD, so I could add them after putting XP on my Gateway.

Keith's Gateway has 200-something Meg of RAM; mine had 500-something, which I upped to 1G, since I tend to max out 500Meg of RAM fairly often. Keith's Gateway came with wireless and a modem but no Ethernet. Mine came with Ethernet but no wireless or modem. I put in a wireless card that I had. It doesn't really fit, since the Gateway has an ATX case, skinnier than a regular case. I had to file about 1/8" off the bottom of the vertical fitting of the card to get the card to seat. The vertical fitting was about an inch too long at the top, so I bent the top part over to get it to go into the space and tied it to the back wall of the case with a cable tie. Not as tight a fit as if it had been an ATX fitting, but it works okay. Modems seem like a thing of the past so I won't bother putting one in.

Now all I need to do is replace the CD-ROM drive with a nice CD-ROM RW DVD and add some programs, drivers (for printers and scanner) and AVG (virus control). The hard part is cleaning

up my files, emails, and such on the old no-name computer that I've been using. When I get the stuff somewhat organized, I'll put it on an external hard drive so I can easily access what I need. Changing computers is a lot of work but well worth it, in this case, because of the speed of the Gateway. The old computer, with a 500MHz processor, is seeming slow when I'm downloading and uploading stuff for the website. (500MHz is the highest the processor can go on the "old" computer).

About every five years, I get a desktop computer cheap or free and upgrade it; then it serves me well for years. This will work (I think) as long as I stay away from Vista, which tends not to work with legacy peripherals and some legacy software, which are what I have and which do the job just fine.

I wish radios were as easy to work on as computers are. The RF gain gradually went out on my old Icom IC-751A, which I had bought used. The radio became useless and I don't know how to fix it. It wouldn't make sense to have it fixed, even if it were possible to fix it (parts aren't always available for this radio) because fixing it could cost as much as it's worth. SPRC also has an Icom IC-751A (or 751, I've forgotten which) which is developing the same problem as mine. While using the club radio at the demo at the Washington Middle School, I noticed that the RF gain was just beginning to go out on it. Maybe when the RF gain problem becomes severe on the club's radio, someone in the club will fix it. Then I can see how they did it so that I can fix my 751A.. As far as the club radio is concerned, the 751 is easy for the middle school kids to learn on because it is not menu-driven.

I hope to see everyone at the March SPRC meeting, where club member **Randy Gawtry, KØCBH**, will share his expertise in antenna and transmission line measurement. Also, don't forget Midwinter Madness March 29th. If you need a hamfest fix sooner than that, check out the Faribault hamfest March 22nd (Saturday of Easter week-end).

SPRC EmComm Class Finishes on High Note

Brian McInerney, NØBM

The first EmComm Level 1 class offered by the St. Paul Radio Club finished on a successful note the evening of February 25th, when seventeen students passed their ARRL CE exams.

The class was structured as a study group, with individuals presenting synopses of chapters and the results of external learning assignments. Participants in the class had a range of amateur, emergency, health care and management experience and discussions were often lively and fun.

Several class sessions were augmented by presentations from other members of the club. **Frank Karnauskas, N1UW**, SEC and **Ann Foster, KØANN**, Metro EC, briefed students on the mission and structure of ARES and discussed opportunities to serve. They also spoke of their personal experiences in emergency communications work. **Skip Jackson, KSØJ**, presented on the metro hospital compact and activities during the past year. Skip's presentation also included a hands-on demo of go-kits assembled for members of the compact. It was a great session for a number of students, as they had practical experience in setting up the very equipment that would be detailed to their facility. **Brian McInerney, NØBM**, conducted a mock session of a traffic net, where there were 13 check-ins and six pieces of traffic were handled. A big thank you to all of those guests for their time and support.

Now onto the important stuff—congratulations to the following students on their certification:

Jay Bellows, KØQB
Ralph Bierbaum, NØAWN
Sue Bollinger, KDØCAA
Richard Buenger, KCØVDP
Jennifer Carlson, KDØCAB
Dallas Fogg, NØLKD
Brian Haskell, KDØBQV
Jeff Iverson, WB9DAN

Phil Jacobs, K9EEE
Gretel Keene, KDØBLB
Don Kelly, WA6ZMT
Jim Klassen, KBØUAZ
Allan Klein, WØONLY*
George Marks, W3CMD
Noel Mason, KDØCAG
Clarence Netwal, K9ELX
Del Sawyer, NØDS
Cynthia Sorenson, KDØCAL

*Allan had a conflict on the 25th, so took his exam at the March session of the St. Paul VE team.

Tech License Class Starts March 6th

The Stillwater Amateur Radio Association will start its Technician class sequence on Thursday, March 6th. The class meets once a week from 7 to 8:30 pm at Courage St Croix, 1460 Curve Crest Blvd in Stillwater (see www.radioham.org for directions). The sessions will run weekly, skipping March 20th (Spring Break in Stillwater), until May 8th, which will be the date of the examination to obtain the license. The test is a 35-item multiple choice test. The course is free, though there is a \$20 book that can be purchased at the first session. Those who pass the exam will be issued a Technician Class ham radio license. There is no fee for the license, but there is a mandated \$14 fee for the testing session.

The class is open to the public, and you do not need to become a member of SARA to participate. Also, there is no longer a Morse code requirement to get any class of ham radio license; the written exam is all that is required.

Questions can be directed to **Greg Widen, KØGW**, k0gw@arrl.net, 651 436-8811.

General License Class Starts March 10th

The St. Paul Radio Club will be sponsoring a series of classes for Technician licensees who want to upgrade to General level.

The classes will begin on Monday, March 10, and will be held each Monday night during March and April, ending on April 28 with a practice exam (The following Saturday morning, May 3, there will be an actual exam session in Roseville). The classes will start at 7:00 p.m., and should be finished by 9:00 p.m.

The classes will be held at the Roseville Fire Station at 2701 Lexington Avenue North in Roseville (just north of County Rd. C).

There is no charge for the classes, but participants must purchase a copy of the ARRL General Class License Manual (6th edition, 2007). It is available at Radio City, as well as directly from the ARRL at arrl.org. We will also have some copies for sale on the first night of class. It would be helpful if participants read through Chapters 1 and 2 before the first class on March 10, but that is not required.

Persons wishing to register for the class should send an email to **Allan Klein, WØONLY**, at al-lankmn@cs.com. In the alternative, registrants may call him at 651-291-8815.

SPRC email Addresses

Due to too much spam to the email addresses (at) stpaulradioclub (dot) org, the email addresses have been migrated to the same "function name" (at) stpaulradio (dot) org (note there's no "club" in the new address). See the volunteer list on page 7.



Gretel Keene, KDØBLB (right) and friend

SPRC Information Table
at
Midwinter Madness Hamfest
 Saturday, March 29, 2008
 8:00 a.m. – 1:30 p.m.
 Buffalo Civic Center, Buffalo MN

SPRC will have a table at the **Midwinter Madness** again this year. We have signed up new members in the past from our table at this hamfest. **Gretel Keene, KDØBLB**, has volunteered to sign up members to work at our club table. The schedule is in half-hour intervals and Gretel will pass it around at the March meeting. Plz put in a stint at the table if you're attending Midwinter Madness, either on the schedule or as a floater. As always, we will have extra chairs so club members can rest and relax there.

The Job Interview

Back when the telegraph was the fastest method of communication, a young man applied for a job as a Morse Code operator. Answering an ad in the newspaper, he entered a large, busy office filled with noise and clatter, including the sound of the telegraph in the background. A sign on the counter instructed job applicants to fill out a form and wait until they were summoned to enter the inner office.

The young man filled out his form and sat down with the seven other applicants in the waiting area. After a few minutes, he crossed the room to the door of the inner office, and walked right in. The other applicants perked up, wondering what was going on. They muttered among themselves that they hadn't heard any summons yet. They assumed that the young man who went into the office made a mistake and would be disqualified. Within a few minutes, however, the employer escorted the young man out of the office and said to the other applicants, "Gentlemen, thank you very much for coming, but the job has just been filled." The other applicants began grumbling to each other, and one spoke up saying, "Wait a minute, I don't understand. He was the last to come in, and we never even got a chance to be interviewed. Yet he got the job. That's not fair!" The employer said, "I'm sorry, but the last several minutes while you've been sitting here, the telegraph has been ticking out: 'If you understand this message, then come right in. The job is yours.'" None of you heard it or understood it. This young man did. The job is his.



Club Wearables

Club members have been asking about ordering club Wearables. It is time to send in a new order. The official St. Paul Radio Club wearables are: Tee-shirts, polo shirts, sweatshirt, jackets and hat. Jackets are a handsome navy blue with the colorful St. Paul Radio Club logo on one side of the chest and name/callsign on the other side and may also have a big logo on the back (\$32.00 extra). Denim shirts come in dark or light blue, also with the club logo on one side and name/callsign on the other side.

The denim shirt and polo shirt are shown in the pic above. The hat is shown on the model (button not included).

The price list and order form will be available at the SPRC website (far right button on top row of buttons) and also will be available at the SPRC March meeting.

St. Paul Radio Club togs are embroidered by B & B Embroidery (www.hamthreads.com), owned and operated by **Dave Birdsley, KF8WS**, and **Shirley Birdsley, N7UPY**.

Ordering information: Fill out the order form. For Color, see the first two paragraphs above. Item callsign is your FCC callsign. Front logo is St. Paul Radio Club. Write in the name you want on the shirt in Special Instructions (first name or nickname). **Be sure to put your name and phone number, in case of questions about your order!** Skip Back Design (unless you want a jacket with a back design) and skip Sales Tax. You can pay by cash, credit card, or check. Plz make checks out to B & B Embroidery. Give or send the order blanks to **Orcy Lyle, WØQT**, by March 15th. Thanks!

New Members
 A hearty welcome to our
 new members

Kelly McShane, KC9KAP, Mahtomedi
Phil Jacobs, K9EEE, St. Paul



Photo by Dawn Holmberg, WXØZ

Pat Tice, WAØTDA, helps members understand how to get the best results from verticals at the February meeting. He also told us about the origin of the Butternut antenna and Butternut Electronics.

Thanks to Our Donors!

Orcy Lyle, WØQT

The St. Paul Radio Club membership application form has spaces for writing in "Optional Donations," including those for Education / Amateur Radio Classes, KØAGF Repeater Service (145.31), and Undesignated / For General Fund. The club thanks members who have made these donations which are above and beyond their club dues. The donations have done much to further the work and activities of the club. Examples of use of donations are Education funds for a current pilot project teaching amateur radio to Washington Middle School students in St. Paul, Repeater funds used to buy a new controller for the ailing repeater, and General funds to give new members the book Ham Radio: Simplified. The donations are much appreciated!

Have a R.A.R.E. Experience at the **Rochester** **Amateur Radio Expo** and **Dakota Division** **2009 Convention**



The Rochester Amateur Radio Club will host their first annual RARExpo, designated as the **2008 ARRL Dakota Division Convention**. The convention will have a wide range of offerings for the Ham Radio community, families, and prospective Hams.

Held at the University Center in Rochester, activities will be held from noon on Friday, August 8th, through 4:00 p.m. on Sunday, August 10th.

Visit www.rarexpo.org for all the latest news and information.

AERO Workshop

An AERO basic course is being held on Saturday, March 15, 2008, starting at 8:00 a.m., at the Great River Energy Building in Elk River, Minnesota. The course is sponsored by the Sherburne County ARES Club. AERO is the Association for Emergency Response Organizations. The course provides information and practice with emergency communications. FFI or to register for the course, contact Dan Peitso at NOPIY@arrl.net.

2M Net Wednesdays
7:00 p.m. 145.310 MHz



Friendly Net Wednesdays
8:00 p.m. 28.310 MHz

St. Paul Radio Club Nets

The St. Paul Radio Club has two nets: The 2 meter net at 7:00 p.m. on Wednesdays on 145.310- MHz (no PL tone), coordinated by **Andy Lokken, KCØTUD**, followed by the "Friendly Net" at 8:00 p.m. ("pre-net" at 7:45 p.m.) on 28.310 MHz, hosted by **Marty Gammel, KAØNAN**.

Anyone wishing to serve as net control on either net, plz contact the relevant person via contact information on the Volunteer page of this *Ground Wave*. The 2 meter net takes place via the SPRC repeater, which is located at the University of St. Thomas in St. Paul. The 10 meter net takes place via ground wave, so needs to have NCOs who are centrally located in the Twin Cities Metro area.

Membership Meeting

Friday, February 1st, 2008

President, **Orcy Lyle, WØQT**, in Room 155, Murray-Herrick Hall at the University of St. Thomas in St. Paul called a meeting of the St. Paul Radio Club Membership to order on Friday, February 1, 2008 at 7:38 p.m.

Introductions of visitors and members were performed.

The Treasurer reported that the Club is in good financial shape and the printed minutes were confirmed.

Upcoming events: Skywarn Class March 15th, Room 304 9a.m. See Dallas Fogg, NOLKD.

Midwinter Madness, March 29th, table reps needed. Fari-bault Hamfest, March 22nd.

Upgrade to General Class starts March 10th see Allan Klein, WONLY for more information.

Our Washington Middle School venture needs volunteers to mentor on Mondays from 3 to 5p.m., see Allan.

Some of the Circuit Builders are winding up the Softrock Kits, some work, some don't. See Jake Jacobson, N0EIZ for details.

Plan ahead for the Dakota Division Convention in Rochester, MN. August 8-10. Watch for further developments.

Officer elections are coming in May. Volunteers and nominations for office positions are welcome anytime, see Dale Maroushek, N0PEY.

Board Meeting

Friday, February 8th, 2008

President Orcy Lyle, WØQT, called a meeting of the St. Paul Radio Club Board of Directors to order on Friday, February 8th, 2008 at 7:02 p.m. The meeting was held at the University of St. Thomas in St. Paul.

Board Members Present:

Orcy Lyle, WØQT, President; Dale Maroushek, N0PEY, Secretary; Skip Jackson, KS0J, James Klassen, KB0UAZ, Vice President; Don Greenheck, N0JPG and Allen Klein, WONLY, were present. Jeff Iverson, WB9DAN was absent.

Old Business:

Membership is now over 108.

Washington Middle School Project: For the school to receive a Grant from the ARRL, a sponsorship from SPRC to provide \$200 for materials was needed from the Education Fund. Motion by Dale, N0PEY; Second by Skip, KS0J. Passed.

Thank You notes will be sent to those members sending above average donations.

Books for our New Members Program will be ordered.

The form for Insurance was completed and returned to the Agency for pricing.

James, KB0UAZ has organized programs for the remaining meetings: March Randy Gawtry, April J. Lyon

Gretel Keene will be contacted about helping organize workers for Midwinter Madness (Gretel volunteered to do this).

Tom, Jim and Orcy manned the station at STU during MN QSO Party; secured 41 contacts. More contributing logs are expected.

Problems with the controller board for the repeater were discovered and correction started, per Tom and Jim.

Orcy, Brian and Dick Sedro will call non-renewing members.

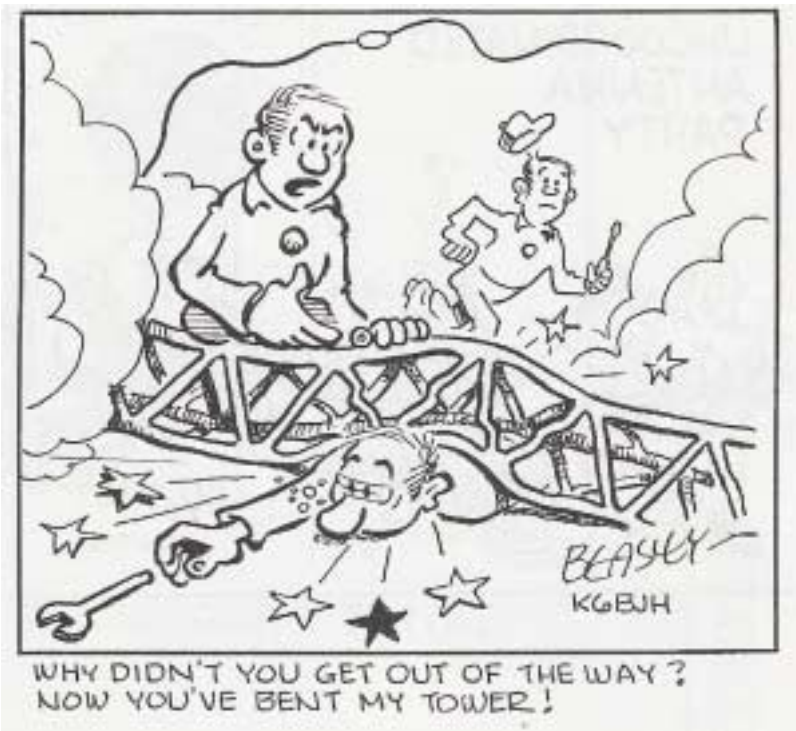
New Business:

Allan will suggest to the Emergency Management class that they participate in the Club's net during the Capitol Classic for Autism in June.

Field Day is coming. Ralph Bierbaum will set up the tower for Phone ops. Chairpersons for all aspects are needed to start planning.

Skip will contact Pat Tice from Courage Center and clarify that SPRC is not a direct support group for HandiHams, as Elmers or mentors. Courage Center does not have an agreement with SPRC to follow up with Courage Center clients. Courage Center is welcome to recruit volunteers from the Club to assist HandiHams, speaking for Courage Center but not for SPRC..

The meeting was adjourned at 8:16 p.m.



From The Best of Beasley by Robert Beasley, K6BJH

The St. Paul Radio Club, Inc., has served the amateurs of this area since 1931 except between 1941-45 when most of the members were in the military service. The first issue of *The Ground Wave* was published in November 1938, under editor Frank Vowles, W9BBL. The club call is KØAGF issued in 1956.

Club Meetings are held monthly (except June, July and August), generally on the First Friday at 7:30 p.m. Consult current Ground Wave or club website for meeting location. Social time 7-7:30 p.m. If you have any interest in radio communications, whether you are licensed or not, please accept this cordial invitation to join us as a member or come visit us at one of our meetings or events. All are welcome!

Individual or family dues are \$20.00 per year payable on September 1; new members joining in mid-year are prorated. Student dues are \$10.00 per year. Children 18 and under are free.

The St. Paul Radio Club's "Friendly Net", an informal get acquainted net, meets at 8:00 p.m. every Wednesday on 28.310 MHz.

Want Ads...The Ground Wave solicits your want ads...free to club members, \$1.00 to others.

Free Classes...SPRC conducts free classes in Code and Theory between September and May for Technician and General licenses.

The Mission of *The Ground Wave* is to bring a good blend of local, national and world news affecting amateurs in addition to technical knowledge, club events and humor. The editor solicits your letters, knowledge and first-hand experiences and stories for future articles.

The St. Paul Radio Club is affiliated with the ARRL.



VHF NETS

145.17 MAGIC Repeater Net Saturday 7:00 p.m.
 146.76 Saturday Swap Shop Saturday 9:30 a.m.
 146.85 MARA Bulletin Board Sunday 7:00 p.m.
 145.31 SPRC 2 meter Net Wednesday 7:00 p.m.

HF NETS

28.310 SPRC Friendly Net Wednesday 8:00 p.m.
 3.860 Minnesota State Phone Net Noon and 5:30 p.m. daily
 3.860 Minnesota ARES Net 6:00 p.m.
 3.710 Minnesota Slow Speed CW Net 6:00 p.m. daily
 3.605 MN State CW Traffic Net 6:30 p.m. and 9:50 p.m. daily
 3.925 MN PICO Net 9-Noon Mon-Sat, 3-5 p.m. Mon-Fri

ST PAUL RADIO CLUB REPEATER KØAGF 145.31 – 600 Open access no tone

ST. PAUL RADIO CLUB VOLUNTEERS

President	Orcena (Orcy) Lyle	WØQT	612 827-2707	president
Vice President	James Klassen	KBØUAZ	651 451-8612	vp
Treasurer	Allan Klein	WØNLY	651 291-8815	treasurer
Secretary	Dale Maroushek	NØPEY	651 777-5309	secretary
Board of Directors	Don Greenheck Skip Jackson Jeff Iverson	NØJPG KSØJ WB9DAN	651 483-1214 651 451-2313 763 560-4458	n0jpg ks0j wb9dan
Membership Chair	Steve Huntsman	AAØP	952 894-3341	membership
Membership Registrar	Skip Jackson	KSØJ	651 451-2313	registrar
Call Trustee	Tom Sturm	NØBGO	651 699-4270	trustee
Education Coordinator	Allan Klein	WØNLY	651 291-8815	education
VE Exams	David Buending	AD2B	952 486-0836	ve
Ground Wave Editor	Don Kelly	WA6ZMT	952 474-2766	editor
Club Historian	Joe Zwirn James Klassen	WØXL KBØUAZ	651 483-4784 651 451-8612	historian vp
Field Day	Ed Jacobson	WBØVHF	952 884-2335	fieldday
Parliamentarian	Tom Sturm	NØBGO	651 699-4270	parliamentarian
Annual Banquet/Picnic Coordinator	OPEN			banquetpicnic
January Auction	Coordinated by the board			auction
Refreshment Coordinator	OPEN			refreshments
Skywarn	Dallas Fogg	NØLKD	651 644-2361	skywarn
Door Prizes/Drawings	John Hunt, Chair Tom Bredemus	KGØJD KCØINP	651 647-1341 651 486-8852	doorprizes kc0inp
Member Technical Assistance	Brian McInerney	NØBM	651 738-5932	technical
Circuit Builders Chair	Jake Jacobson	NØIEZ	651 554-0441	circuitbuilders
Friendly Net	Marty Gammel	KAØNAN	651 646-5428	friendlynet
2 Meter Net	Andy Lokken	KCØTUD	651 224-5553	2mnet
Repeater Committee	Joe Zwirn, Chair Tom Sturm Skip Jackson Keith Miller Joe Kreitzer Jeff Iverson	WØXL NØBGO KSØJ AGØH KCØJK WB9DAN	651 483-4784 651 699-4270 651 451-2313 651 777-0109 651 785-9402 763 560-4458	repeater trustee ks0j ag0h kc0jk wb9dan
University of St Thomas Liason	Tom Sturm	NØBGO	651 699-4270	ustliasion
Webmaster	Orcena (Orcy) Lyle	WØQT	612 827-2707	webmaster

To send email to these club volunteers, use the prefix listed followed by an at-sign and "stpaulradio.org" (note: The word "club" is not included)

DAKOTA DIVISION ARRL OFFICERS

Director	Jay Bellows	KØQB	651 222-7253	k0qb@arrl.org
Vice Director	Greg Widin	KØGW	651 436-8811	k0gw@arrl.org
Asst. Directors	Michael Siegelman Brian McInerney	KØBUD NØBM	612 542-8450 651 738-5932	n0oel@aol.com briann0bm@aol.com
MN Section Manager	Richard (Skip) Jackson	KSØJ	651 451-2313	ks0j@arrl.org

St. Paul Radio Club - Summary Calendar of Events

Fri Mar 7 7pm St. Paul Radio Club Meeting (see page 1)
Mon Mar 10 7pm General License Class meets through April 28 (see page 3)
Fri Mar 14 7pm St. Paul Radio Club Board Meeting. University of St Thomas OSS 435 (4th floor lounge, across from elevators)
Sat Mar 15 9am St. Paul Radio Club Breakfast. Perkins Midway on University east of Snelling
Sat Mar 15 9am—1pm SPRC Skywarn class, UST MHC 155 (see page 1)
Sat Mar 15 11am SPRC Circuit Builders. University of St. Thomas OSS 415*
Sat Mar 22 8am—1pm Faribault hamfest www.hamfest.w0nka.net
Sat Mar 29 8am—1:30pm Midwinter Madness Hobby Electronics Show, Buffalo MN, Robbinsdale ARC. www.k0ltc.org.
Fri Apr 4 7pm St. Paul Radio Club Meeting
Sat Apr 5 8am—5pm Minnesota Skywarn Workshop (see page 1)
Sat Apr 5 9am SPRC VE followed by EC Exams – Call David M. Buending AD2B, 952 486-0836, or ad2b at arrl.net for info
Fri Apr 11 7pm St. Paul Radio Club Board Meeting. University of St Thomas OSS 435 (4th floor lounge, across from elevators)
Sat Apr 19 9am St. Paul Radio Club Breakfast. Perkins Midway on University east of Snelling
Sat Apr 19 11am SPRC Circuit Builders. University of St. Thomas OSS 415*

* Check the SPRCCB Yahoo group or contact Jake at [circuitbuilders](#) (see page 7) to confirm CB schedule.

NOTE: The dates listed above for VE exams are the usual session dates for each VE team; occasionally sessions are canceled or changed. We urge our readers to call the contact number to confirm the test time, place and space.

The calendar is provided as a service to our readers; the St. Paul Radio Club is not responsible for errors or omissions.

To list your general interest amateur event in the calendar, contact the editor. Priority given to SPRC events, area events and national/international events in that order, space permitting.

St. Paul Radio Club Meeting
Friday March 7th — UST Room MHC 155 (see page 1)

ADDRESS CORRECTION REQUESTED

St. Paul Radio Club, Inc.
P. O. Box 9375
North St. Paul MN 55109

