



Saint Paul Radio Club, Inc. www.stpaulradioclub.org

The Ground Wave

January 2009



SPRC Banquet February 7th

The St. Paul Radio Club Banquet will be February 7th, 2009 at 6:30 pm in Room MHC 304 on the University of St. Thomas campus. This year, the theme will be a Sweetheart Banquet, so bring your better half and enjoy a good meal and a fun program. Of course the banquet isn't just for couples, so bring friends, family, or come on your own. Jan Uzlik, **KØQEP**, and John Desmond, **KØTG**, will share stories of their 2006 trip to Brazil and the World Radiosport Team Champion

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Brian C. Hart, Ph.D., NØTXR presented "Galaxy Clusters: Giants of the Universe" at the December SPRC meeting.

Saint Paul Radio Club Auction

Friday, January 16th, 2009

Setup 6:30 - 7:30 p.m.

Auction starts 7:30 p.m.

University of St. Thomas

Murray-Herrick Campus Center, Room 304



We hope to see you at our upcoming Auction! We have been saving stuff to sell and we know you have a backlog of equipment and stuff that you probably would like to get rid of. Others of you are looking for that certain something or for whatever looks interesting. This is the place!

If you have a lot of Auction stuff to unload/load, use the loading dock to the building, reached from the parking lot by the building. The loading dock is right by the elevator to the third floor. Carts will be available.

Again this year, the Auction will have the speedy checkout system computerized by Dallas Fogg, NØLKD, with Dale Maroushek, NØPEY using his backup system. There will be a refreshment table.

See the auction rules on page 2.

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. On the left (south) side of the parking lot is a loading dock. Take the sidewalk alongside the building, to the right of the loading dock, into the building and go to the elevator on the left. Take the elevator to **Room 304**.

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

Silent Keys

Joseph Schumi, NØOOT

Joe Schumi, a long-time member of the St Paul Radio Club, was a care center resident in his final months. We understand that Joe enjoyed the Ground Wave when his son, Larry, WBØGOP (also a member of SPRC), would read it to Joe each month.

This obituary was printed in the Pioneer Press on January 1, 2009:

Schumi, Joseph Hard Working Dad Age 90 of Saint Paul Inspector, DoD, assigned most of his career at Honeywell facilities. Avid electronics enthusiast and Ham Radio Operator, NØOOT. Preceded in death by sister Mary Milligan. Survived by caring wife of 68 years, Dolores; children, Joseph (Win Ann), Laurence, Michael (Ruth) and Virginia (Randal) Bauman; grandchildren, Jennifer, Melissa, Zachary and Matthew. Mass of Christian Burial Saturday 1PM at the CHURCH OF SAINT BERNARD 197 W. Geranium. Interment, Oakland. Visitation Friday 4-8PM at BRADSHAW, 1078 Rice Street at Magnolia and 1 hr prior to Mass at the church. Memorials preferred. Special thanks to our staff friends at New Harmony Care Center for their loving care. 1078 Rice Street.

Gregory Moline, KDØAQY

We have received word that Greg Moline has passed away, but have no further information.

Banquet, from page 1:

ships (WRTC) held there. The WRTC have been called the Olympics of radiosport, where every four years teams gather from all over the world for an intense 24 hour competition. John was a referee for the contest in Brazil and will share details of his experience with the WRTC. Jan and John also had time to tour the country and will provide a travelogue of their adventures. Dinner will be \$10.00 per

Interested in Balloon Experiments?

Rick Brennan, KØBR, President of the Stillwater Amateur Radio Association (SARA), has tentatively scheduled an informal meeting of hams interested in wx balloon experiments. The purpose of the meeting is to discuss what to accomplish with the first launch, which may involve attaching a capsule to a possible University of Minnesota launch in March. Funding for the project will also be discussed.

The meeting will be Thursday evening, January 22nd, in Stillwater. SPRC members who are interested in attending, and perhaps becoming involved with the SARA balloon projects, may contact Orcy, WØQT, pastpresident <at> stpaulradio.org (use @ sign).

SPRC Auction Rules

You may set a minimum price for your items.

The St. Paul Radio Club collects 10% of the sale price, up to a maximum of \$10 (reducing the net payment to the seller). There is no charge for buyers.

You may donate items to the SPRC to sell.

Unsold items must be taken home by the seller.

The net amount collected by the St. Paul Radio Club will be donated to the **ARRL Spectrum Defense Fund!**

SPRC Auction Items

Just a few of the items to be auctioned (starting bids are listed):

Icom IC-761 Transceiver w/Instruction Manual&schematic \$250

Icom IC-20 Speaker with audio filters \$25

Tempo S1 2meter hand held with leather case \$40

Palomar RX noise bridge \$20

Johnson 250-20 Low Pass Filter \$19

These antennas will be up for auction, but will not be on site.

They can be picked up at 2602 Hazelwood St., Maplewood, MN or can be delivered later on. Most have manuals and are in great shape

Beams:

Mosley Classic 33 Triband \$125

Hygain DB 10-15 2 band 3EL Supposedly can be made into a 12-17M Dale has the extra tubes. \$100

Home brew 10M 3EL made from HyGain parts \$25

Home brew 2M 5EL does not collapse \$20

Kathrein Scala (google it) 3 or 4 EL something VHF I think \$20

Verticals:

Butternut HF6V \$75

Butternut HF5V \$75

Hygain V-2R 2M \$50

Cushcraft R-7000 w/80M kit \$275

person and tickets must be bought by January 21st. We will have a few prizes to be given out by random drawing. The Banquet will be in the same room as the Auction on January 16th (see page 1).

The buffet-style dinner will include:

*Fresh Sliced Fruit Display
Caesar Salad*

*Pasta Salad
Beef Tips with Wine Sauce, Pearl Onions and Wild Mushrooms
Flat Grilled Herbed Chicken w/ Sauce Bernaise
Mashed Yukon Gold Potatoes
Fresh Seasonal Vegetable
Assorted Artisan Breads / Butter Dessert*

A vegetarian meal option is available on request with your reservation.

Membership Meeting

October 3, 2008

A meeting of the St. Paul Radio Club membership was called to order on October 3, 2008, at 7:31 PM by President Dale Maroushek, NØPEY.

25 members signed in on the membership attendance sheet; 2 guests signed in on the guest attendance sheet; a headcount during the business meeting showed 31 people present.

Dale announced that:

Work on the estate of Fred Gantzer, WØALD is wrapped up.

Jay Mahre NØJM has scheduled the Banquet for February 6, 2009. December meeting will be a holiday party/potluck as in the past.

New Technician Class starts on October 13 at Roseville Fire Hall.

VE exams are tomorrow (10/4) at Roseville City Hall.

The club needs a person to volunteer as a coordinator for club support of communications at events such as walk-a-thons and races.

The names of Skip Jackson, KSØJ, and Dawn Holmberg, WXØZ, were entered into nomination for Board Member At-Large. Election will be held at the November meeting.

The Circuit Builders group is on hold, hopeful that winter weather will garner more interest.

Fred McCormick, KBØNVC, Nominations Chair, made a pitch for volunteers for unfilled positions.

Dale reminded everyone of the "Technical Corner" coordinated by Brian McInerney, NØBM, Member Technical Assistance, available before meetings for technical advice.

Visitors were introduced.

The meeting was adjourned at 7:46 PM.

Post adjournment, Orcy Lyle, WØQT, introduced the program, John Lyon, W9LHG, on "Elecraft for Every Ham."

Membership Meeting

November 7, 2008

A meeting of the St. Paul Radio Club membership was called to order on November 7, 2008, at 7:33 PM by President Dale Maroushek, NØPEY.

Signed in on Members sheet: 34. Signed in on Guests sheet: 1. Headcount during business meeting: 44

Allan Klein, WØNLY, gave a Treasurer's report.

Fred McCormick, KBØNVC, Nominations Chair, announced that Ralph, NØAWN, and Janet, KDØBZZ, Bierbaum have volunteered to serve as Emergency Services Liaisons. We still need someone to call on new hams, meeting guests, non-renewing members, etc.

John Hunt, KGØJD, made a pitch for door prizes. Tickets are now \$1 each.

We are starting a table of donated surplus parts and equipment, available for a donation to the ARRL Frequency Defense fund.

A work party raised the repeater antenna about 10ft.

Joe Zwirn, WØXL, talked about tracking trains on 900MHz.

Jay Mahre NØJM gave an update on the Banquet scheduled for February 6, 2009, in Room 304.

James Klassen, KBØUAZ, is willing to serve again as Field Day chair.

Allan Klein, WØNLY, gave a report on education. Technician class is halfway done – needs more students; need ideas to help fill General Class in spring. Washington Magnet School program is going well. Have had 2 foxhunts. Need volunteers to help on Monday afternoons at 2:45 pm. School is at Rice & Maryland. Twila, NØJPH, announced that the teacher, Denise Kapler, KDØCOT, and her daughter Maureen were in attendance. John Hunt, KGØJD, asked for members to be on the air 3-4 pm. Monday afternoons on 40 meters and 2 meters to talk with the students.

December meeting will be Brian Hart, NØTXR, giving a presentation on galaxy clusters. This will also be our holiday party. The club will provide a deli tray and beverages and members are asked to bring deserts.

Auction will be January 16.

The meeting was adjourned at 7:59 PM.

Post adjournment, Orcy Lyle, WØQT, introduced the program, James Flaten talking about sub-orbital space experiments using balloons and tracking with APRS.

Membership Meeting

December 5, 2008

A meeting of the St. Paul Radio Club membership was called to order on December 5, 2008, at 7:38 PM by President Dale Maroushek, NØPEY.

Signed in on Members sheet: 26. Signed in on Guests sheet: 3. Headcount during business meeting: 36

Dale made the following announcements:

Minutes will appear in next month's *Ground Wave*

The Treasurer is out of town. Finances are good. Contact

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Allan Klein, WØNLY, if you want details.

Wearables are still available. See web site for details.

Skip Jackson, KSØJ, is working on a new club brochure.

Field Day is only six months away.

Ralph, NØAWN, and Janet, KDØBZZ, Bierbaum have volunteered to serve as Emergency Services Liaisons.

The Auction will be Friday, January 16. Details in next *Ground Wave*. If you have a special or large ticket item you wish to sell, let Dale know and it will be listed in the *Ground Wave*.

Dale read a "message from Santa" about this evening's special door prizes.

Jay Maher NJØM gave an update on the Banquet scheduled for Saturday, February 7, 2009, in Room 304. Tickets will be \$10 in advance. Form in next *Ground Wave*.

The meeting was adjourned at 7:51 PM.

Post adjournment, Dale introduced the program, Brian Hart, NØTXR, talking about *Galaxy Clusters: Giants of the Universe*.

Board Meeting November 14, 2008

A meeting of the St. Paul Radio Club Board of Directors was called to order on November 14, 2008, at 7:10 PM by President Dale Maroushek.

BOARD MEMBERS PRESENT:

Dale Maroushek, NØPEY, President

Orcy Lyle, WØQT, Past-president

James Klassen, KBØUAZ, Vice

President

Jeff Iverson, WB9DAN, Secretary

Skip Jackson, KSØJ, Board Member At-Large

Don Greenheck, NØJPG, Board Member At-Large

COMMITTEE CHAIRS AND OTHER INTERESTED MEMBERS PRESENT:

Jay Maher, NJØM, Refreshment Coordinator

World Radio was bought by CQ. Hold off on buying any more gift certificates.

There was a discussion about the *Ground Wave*. It was decided to keep it as a monthly publication. Allan offered to help with "grunt" work of putting it out.

The December meeting will be a holiday party. Club will purchase meat and fruit trays, punch and coffee, Members to bring desserts/snacks.

The auction will be January 16, 2009. Rules to be the same. Dallas will have his computer system. Orcy will make flyer. Jeff will do talk-in. Proceeds will go to ARRL Frequency Defense Fund.

Banquet will be Saturday February 7th. Room 304. Tickets will be \$10 – club to subsidize rest. Get recommendations to Dale for Member of the Year award.

Ralph, NØAWN, and Janet, KDØBZZ, Bierbaum have volunteered to serve Emergency Services Liaisons. Twila and Brian will help Fred with calling on new hams, meeting guests, non-renewing members, etc.

Skip reported that our membership stood at 80.

It was restated that we need to recognize donations to the club above and beyond dues.

The Stillwater Radio Club (SARA) is looking to getting into launching balloons for sub-orbital space experiments. They need about \$1000 for their first launch and are looking for financial support. It was decided that we would not do it as a club, but encourage individual members who are interested to help out.

Allan Klein, WØNLY, gave a Treasurer's report.

Washington Magnet School program is going well. Need members to be on the air 3-4 pm. Monday afternoons on 40 meters and 2 meters to talk with the students.

Board Meeting December 12, 2008

A meeting of the St. Paul Radio Club Board of Directors was called to order on December 12, 2008, at 7:07 PM by President Dale Maroushek.

BOARD MEMBERS PRESENT:

Dale Maroushek, NØPEY, President

Orcy Lyle, WØQT, Past-president
James Klassen, KBØUAZ, Vice President

Allan Klein, WØNLY, Treasurer
Jeff Iverson, WB9DAN, Secretary
Skip Jackson, KSØJ, Board Member At-Large

Don Greenheck, NØJPG, Board Member At-Large

COMMITTEE CHAIRS AND OTHER INTERESTED MEMBERS PRESENT:

Jay Maher, NJØM, Refreshment Coordinator

Discussion re Auction: Dallas will have computer system at auction. Discussed need to advertise. Decided paid advertising is not a good investment. Will publicize as much as possible at other clubs, stores, nets. Will list big items for sale on web site, *Ground Wave*.

Skip had copies of the new SPRC brochure he designed. Everyone thought it looked good.

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Eleventh Annual Minnesota QSO Party

by John Desmond K0TG

Sponsored by the Minnesota Wireless Association

Saturday, February 7, 2009

8:00 AM CST (1400 UTC)
Through 6 PM CST (2400 UTC)

Plaques and Certificates for Winners in All Categories

Special Gift of Minnesota Premium Wild Rice for Top 20 Non-Minnesota Scores!

Special Club Competition

Warm up your HF rig and BE the DX for a day! In the MNQP you are the DX which makes for a lot of fun operating!

There are many ways to enter. There are HF Classes and VHF classes. HF classes are 160-10 meters

Want Wearables?

Ask Orcy or check the website
www.stpaulradioclub.org

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FCC has asked for amateurs to help with DTV conversion. SPRC will support

Banquet will be Saturday February 7th. Room 304. Decided on the school's "Grand Buffet" which offers a choice of chicken or beef. Will also get a sheetcake. Tickets will be \$10 – club to subsidize rest.

There was a discussion about the *Ground Wave*, formats, how to divide up the work, etc. Tabled for more input and further discussion.

There was discussion about our "Ham of the Year" award to be given at the banquet. A worthy candidate was nominated and chosen.

The meeting was adjourned at 8:17 PM.

(excluding the WARC bands). VHF classes are 6 meters and above. Phone modes are SSB & FM. Both modes count as Phone category. CW/RTTY/PSK all count as CW.

Minnesota stations can enter in these categories:

Single Operator Low Power (100 watts or less)

Single Operator QRP (5 watts or less)

Single Op Phone only

Mobile--Single Transmitter (single transmitter multiple operators)

Mobile--Unlimited (two or more transmitters)

VHF

Multi-Single (Single transmitter--multiple operators)

To make it easy to find stations you are looking for and for others to find you if you are CQing, packet spotting networks are allowed.

It is a friendly contest. The exchange is your first name and county using standard three letter designators (listed on the website). W/VE stations outside of MN send their first name and state/province. DX stations send their first name only and are logged as DX. Yes there are some DX stations that participate too.

Score multipliers are each of the 87 counties 49 states excluding Minnesota plus DC, 11 Canadian provinces and three Canadian Territories.

Scoring is 1 QSO point for every Phone QSO, 2 points for CW QSO's. The final score is QSO points times the multiplier total.

Club Competition: Along with competing on an individual basis, you can add your score to

your club aggregate score. An aggregate trophy is awarded to the club with the highest collective point total submitted by its members. Members must specify a club affiliation on their summary sheet turned in with their log. The MWA is not eligible to participate at the club level. In 2008, SPRC had 4 entries. Let's get more stations on the air for this event.

The last couple of years all 87 Minnesota counties were on the air. So it is possible to work all of them in one day and is has been done. The mobile operators make that quite possible. Several groups of operators are making their plans for their routes and plans to activate counties as they roll along. To add to the fun, some of the mobiles are equipped with APRS and you can track their progress as they go from county to county and work them along the way. With the aid of the packet network, APRS and tuning around you will have no trouble finding stations to work. But don't forget to call CQ yourself. Remember YOU are the DX!

I briefly went over some of the highlights here. For more information on the MNQP and all of the rules, please look at the Minnesota Wireless Association's website, www.w0aa.org. Consider joining the MWA for more contest fun throughout the year. The MWA meets once per year (usually in the fall) and is a very informal group. The MWA also has a very active email reflector where contesting and Amateur Radio in general are discussed.

Have fun in the MNQP and join my Wife Jan, KB0QEP and me afterward at the SPRC Banquet for a trip to Brazil and WRTC 2006.

Washington School Project Continues with Help from SPRCers

Club members have resumed their weekly Monday afternoon sessions with 7th and 8th graders at the Washington Middle School Radio Club, KDØCNH. The club is led by science teacher **Denise Kapler, KDØCOT**. Sessions began in September, were suspended for the Holiday Break, and just resumed on January 6. A few more volunteers are needed. Read on.

During the fall, the students did a number of things. They saw demonstrations of basic electronics and radio. Magnetism, frequency, current and voltage, and even wave theory were covered, with many props like a fish tank, a compass, coils and music pipes. Kudos go to **Jay Maher, NJØM, Keith Miller, AGØH, and Mert Nellis, WØUFO**, for these.

Soldering techniques were taught, and the students constructed projects from kits, including a motorized robot that could sense objects in it's path and respond to them. Also built was a one-transistor "Blinky," that would do justice to any Christmas tree or Holiday decoration. In addition to those mentioned earlier, **Jim Klassen, KBØUAZ, Steve Huntsman, AAØP, Allan Klein, WØNLY**, and **Orcy Lyle, WØQT**, helped with these.

The students also made portable 2- meter beam antennas. The booms were made from PVC pipe, and the elements were made from metal tape measures. Hairpin matches were made from stiff wire, and small coax feedline was used to connect the antennas to HT radios. The students and SPRC club members then enjoyed a series of fox hunts in the neighborhood around Washington Middle School. In addition to those already mentioned, Don Greenheck, NØJPG,

was instrumental in this success.

Denise requested that we locate the HF vertical antenna on the school roof in a place where it could be seen by the students in her classroom. She made the same request when it came time to locate a wind generator (technically, a wind turbine) that will ultimately generate all the power needed by the club station. A number of the folks already mentioned obliged, and now the students can look out the window and see both the vertical and the wind generator. Denise knows that it helps the kids understand when they can actually see the devices we are telling them about.

The club station, KDØCNH was active, with students making HF contacts with hams in Florida, California, North Carolina, Texas and, believe it or not, Belize! But some of the pleasantest and most informative QSOs came from VHF contacts with Maplewood and St. Paul, courtesy of Brian McInerney, NØBM, and John Hunt, KGØJD. In addition to those already mentioned, Twila Greenheck, NØJPH, helped the students with these contacts, with logging and with QSL cards.

Plans for the winter and spring include a Field Trip to the Bakken Museum and the building of a series of projects including a static electricity "sniffer" and a three-part series built around a crystal radio. This series will begin with a simple crystal radio. Next, we will add a one-transistor audio amplifier that will make it easier to hear stations. That will be followed by a preselector and RF amplifier combination designed to improve selectivity in our crowded AM environment.

Depending on how these three projects go, we may do a final audio amplifier that will be powerful enough to drive a loudspeaker.

The same kids that do radio on Mondays do rocketry on other days. We are planning to combine the two by building a tiny transmitter that can fit inside a rocket. Then, when the rocket is sent up and comes down somewhere in the neighborhood (typically on a garage roof) the kids can use their fox-hunting skills to retrieve the rocket. It should be fun.

We would welcome a few more volunteers to help, especially with the project building. There is no substitute for one-on-one mentoring of the students as they build things. Simple questions, like "Does it matter which end of the resistor goes here?" are sometimes never asked in a large group. But if it is just one-on-one, then the students will ask. A one-on-one mentor can also warn about pitfalls (like solder bridges on PC boards) that might not otherwise be noticed by the student. This winter and spring, we are limiting participation to nine or ten students, even though there were over thirty who indicated an interest in joining the class. On any given Monday, there will be four or five hams at the class. But especially when we are building, we could use four or five more hams to assure the desired one-on-one ratio. The only real qualification is patience with kids. The rewards are very satisfying—the thrill of having your student's project light up the first time the battery is attached, and the pride that (s)he takes in it, are wonders to behold. It makes you feel good to have helped them succeed.

The class meets from 2:50 to 4:50 on Monday afternoons. The school is at 1021 Marion Street, near the intersection of Rice and Maryland, on the city's "North End." If you would like to help out, please contact Allan Klein, WØNLY, at allankmn@cs.com or w0nly@arrl.net.

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!

Annual dues are payable on September 1. Individual or family: \$20.00, student: \$10.00. Children 18 and under are free. Members joining mid-year are prorated.

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

Free Classes... The club usually conducts Technician level classes in the fall and General level classes in the spring.

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

SPRC REPEATER KØAGF 145.31 – 600 Open access no tone

ST. PAUL RADIO CLUB VOLUNTEERS

President	Dale Maroushek	NØPEY	651 777-5309	president
Vice President	James Klassen	KBØUAZ	651 451-8612	vp
Treasurer	Allan Klein	WØNLY	651 291-8815	treasurer
Secretary	Jeff Iverson	WB9DAN	763 560-4458	secretary
Past President	Orcena (Orcy) Lyle	WØQT	612 827-2707	past president
Board of Directors	Don Greenheck Skip Jackson	NØJPG KSØJ	651 483-1214 651 451-2313	n0jpg ks0j
Nominations	Fred McCormick	KBØNVC	651 633-1103	nominations
Membership Liason	Twila Greenheck	NØJPH	651 483-1214	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	James Klassen	KBØUAZ	651 451-8612	fieldday
Parliamentarian	Tom Sturm	NØBGO	651 699-4270	parliamentarian
Annual Banquet/Picnic Coordinator	Jay Maher	NJØM	612 850-0810	banquetpicnic
January Auction	Coordinated by the board			auction
Refreshment Coordinator	Jay Maher	NJØM	612 850-0810	refreshments
Emergency Service Liaison	Ralph Bierbaum Janet Bierbaum	NØAWN KDØBZZ	651 490-9859 651 490-9859	ec
Skywarn	Dallas Fogg	NØLKD	651 644-2361	skywarn
Door Prizes/Drawings	John Hunt, Chair Tom Bredemus	KGØJD KCØINP	651 647-1341 651 414-5535	doorprizes kc0inp
Member Technical Assistance	Brian McNerney	NØBM	651 738-5932	technical
Circuit Builders Chair	Jake Jacobson	NØEIZ	651 554-0441	circuitbuilders
Friendly Net	Marty Gammel	KAØNAN	651 646-5428	friendlynet
2 Meter Net	Andy Lokken	KØAJL	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	ustliason
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 McNerney	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 Jan 9 7pm SPRC Board meeting. University of St. Thomas OSS 435 (4th floor lounge, across from elevators)
Sat Jan 10 9am SPRC VE followed by EC Exams – Call David M. Buending AD2B, 952 486-0836, or ad2b at arrl.net for info
Fri Jan 16 Annual Auction, UST room MHC 304. Setup 6:30 –7:30. Auction starts at 7:30.
Sat Jan 17 9am St. Paul Radio Club Breakfast. Perkins Midway on University east of Snelling
Sat Jan 17 11am SPRC Circuit Builders. University of St. Thomas OSS 415*
Thu Jan 22 Balloon Experiment Meeting. Contact Orcy, pastpresident <at> stpaulradio.org (see page 2)
Fri Feb 6 7pm Socializing, 7:30pm St. Paul Radio Club Meeting, UST room MHC 155
Sat Feb 7 8am-6pm Minnesota QSO Party
Sat Feb 7 9am SPRC VE followed by EC Exams – Call David M. Buending AD2B, 952 486-0836, or ad2b at arrl.net for info
Sat Feb 7 6:30pm SPRC Annual Banquet. Rm 304 MHC
Fri Feb 13 7pm SPRC Board meeting. University of St. Thomas OSS 435 (4th floor lounge, across from elevators)
Sat Feb 21 9am St. Paul Radio Club Breakfast. Perkins Midway on University east of Snelling
Sat Feb 21 11am SPRC Circuit Builders. University of St. Thomas OSS 415*
Fri Mar 6 7pm Socializing, 7:30pm St. Paul Radio Club Meeting, UST room MHC 155
Sat Mar 7 9am SPRC VE followed by EC Exams – Call David M. Buending AD2B, 952 486-0836, or ad2b at arrl.net for info
Fri Mar 13 7pm SPRC Board meeting. University of St. Thomas OSS 435 (4th floor lounge, across from elevators)
Sat Mar 21 9am St. Paul Radio Club Breakfast. Perkins Midway on University east of Snelling
Sat Mar 21 11am SPRC Circuit Builders. University of St. Thomas OSS 415*

* Visit <http://groups.yahoo.com/group/SPRCCB> or email [circuitbuilders at stpaulradio.org](mailto:circuitbuilders@stpaulradio.org) 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 Auction
Friday January 16th—UST Room MHC 304 (see page 1)

ADDRESS CORRECTION REQUESTED

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

