

# Puget Amateur Radio Society

# SPARKS

VOLUME 12 No. 10  
President: Lorie Graff N7LC0 392-5846  
Vice-President: Bob Adams KJ7BP 454-0506  
Secy-Treas. Jim Von Seggern KC7FEH 885-7333

October, 1997  
NEXT MEETING:  
7:30 pm Thursday  
Oct. 16,1997  
Puget Auditorium

## PROGRAM NOTES

October 16--Propagation Characteristics, presented by Patrick Dayshaw WA7VNI, a member of the Western Washington DX Club. There will also be a silent auction of some donated headsets and switches at this meeting. Also it's time to think about nominating the Ham of the Year, nominating forms will be available at the meeting.

November 20--New FCC safety regulations and other ARRL information, presented by Greg Milnes W7AGQ of Portland, OR, who is the Vice-Director of Northwest Region of ARRL.

December 19--Annual Christmas party, to be held this year at the home of Tom Grotte WB7TEJ.

THE PREZ SEZ That happened to our warm Indian Summer weather? It won't be long before we're pulling our warm winter jackets out of the closet.

I want to personally thank everyone who responded to my September phone calls with a "yes, I can do that" to my requests for assistance, who gave creative suggestions for programs, and offers to make contacts to potential program presenters. I told you I was going to need lots of help to bring positive energy and new members into our club and I appreciate very much your willingness to be involved.

A special round of applause from me to the following members who have volunteered to serve during the next year:

- Bob Adams KJ7BP refreshments and Greeter
- Kirk Bellar KE7TN Program coordinator
- Jim Darby W7FYH Publicity and Membership
- Chuck Graff K7CHV flea market
- Tom Grotte WB7TEJ flea market
- Don Hickman KC7MDA Publicity and Membership
- Jimmy Horn KA7GKP Fox Hunt
- Chuck Stroehler WA7EBH Public Service

At the present time, we have 27 individual members and 4 family members. I'd like to see 50 members by next June. Another goal is to have one or two functioning HF stations in the trailer. The Board was informed at the Oct. meeting that a generous individual, who wishes to remain anonymous, will be donating an IC-746 in the next 2-3 months, so we're on our way.

We have some excellent programs coming up for you, so keep watching in SPARKS for previews.

Come to the meeting and bring a ham friend. We had 9 guests at the Sept. meeting, and 3 of them joined the club. Welcome to Charles Beckmeier KC7GMF from Kirkland, Cameron Etezadi KFORY from Redmond, and Arthur Rolfe N7YKI from Bellevue.

Some of the members get together for dinner at Coco's on 112th before the meetings, at 6:00pm. Anyone is welcome, just show up. 73 Lorie N7LC0

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At the Oct. 16 meeting, there will be a bid box for the silent auction. There are 6 Icom HS-10 headsets and 7 Icom HS-10SB switch boxes, each with a suggested retail value of \$69.00. Put your name, phone number, the item you are bidding on, and your bid on a bid sheet and drop it into the box. If you can't make it to the meeting, call Lorie at 425-392-5846 and leave the information on her answering machine. Highest bids win, checks made out to PARS are acceptable.

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TREASURERS REPORT We are quite solvent, and a full report will be given at the meeting.

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You will find attached to this issue a copy of the proposed budget for 1998, and a revised copy of the membership roster. Look through the roster, and let me know via e-mail, US mail, or phone 885-7333, if you want me to fill in any of your missing information on the roster. The budget will be presented for approval at the Oct. 16 meeting.

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#### Public Service Opportunities

EARS (Eastside Amateur Radio Service)--interested parties contact John Black W7HIL 391-8026 or Chuck Stroehrer WA7EBH 392-5303. Always room for more help in this community activity.

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### MINUTES of PUGET AMATEUR RADIO SOCIETY MEETING Sept. 18, 1997

The meeting was called to order by President Lori Graff N7LC0 with the Pledge of Allegiance. There were 9 members present, and 10 guests, all of whom introduced themselves with a few personal remarks.

Pres. Lori then introduced Mike Dinkleman N7IIA who presented an interesting program on contesting; why we do it, what types there are, resources and how to get started, and some tips on basic techniques.

Following the presentation, the business meeting was opened. The minutes of the previous meeting of June 19, as published in SPARKS, were approved.

There was no Treasurer's report, as noted in SPARKS, but the club at present has a good bank balance, as reported by Sec. pro tem Jim Darby W7FYH.

Pres. Lori stated that the budget was supposed to be presented at this meeting,

However, due to the new changeover and the absence of the Treasurer it has not been formulated yet. It will be worked out at the next Board meeting and presented for approval at the October meeting.

John Black W7HIL reported that the latch repair on the trailer is now done. He feels that there is no way to put a really effective lock on the door, given the construction of the door. Pres. Lori said that the Board will have to consider how to handle trailer security at the next meeting.

Pres. Lori said that with one exception, she has personally contacted every member of the club, and she appreciates all the input she has received. She also wants to thank all those who have volunteered to help this year. Kirk Bellar, KE7TN, will be acting as Program Coordinator, and will be responsive to any suggestions regarding the program. His phone number and e-mail address are in the club roster. Bob Adams KJ7BP, the V-Pres., will again take care of refreshments and the printing of the club brochure. Jim Darby W7FYH and Don Hickman KC7MDA will handle Publicity and membership matters. Chuck Graff K7CHV and Tom Grotte WB7TEJ will take care of the table arrangements for flea markets. Those who might have boxes of items for a flea market are asked to provide an inventory of their donations, along with the boxes. Chuck Stroehler WA7EBH will continue coordinating Public Service, as he has done for years. Jimmy Horn KA7GKP will again head up a Fox Hunt in the spring, and Jim Hossack W7LS, although not a member any longer, will bring a group of elementary students he has been teaching in Duvall. Lori asked that members look for notices in the Seattle P-I and Times, the Eastside Journal and the Eastside Week, to be sure that they are printing what is submitted. Lori noted that while dues for the year are \$15, those wishing to join for the remainder of this year can do so for \$5.

Chuck Stroehler WA7EBH needs some people to work the Issaquah Salmon Days parade on Saturday Oct. 4. Meet at 8:00am at the 12th St. Cafe, parade begins at 10:00am. Also, if anyone is interested in helping a fund-raiser by the Seattle Fire Dept. for the Northwest Burn Foundation, to benefit the annual burn camp they hold for severe burn victims, what they need is bodies to help collect donations, not a radio person. Contact Elizabeth Huttman at 789-6838.

Saturday Oct. 11, the N. Kitsap Amateur Radio Club is having their annual Ham Fest and electronic swap meet at the Kitsap County Fairgrounds in Bremerton.

The club has received a donation of 6 headsets and 6 switch boxes, which will be offered for sale to members at the Oct. meeting, with unsold units then going to the flea market table later in the year. Tom Grotte suggested that the units be auctioned off, rather than just randomly sold.

Pres. Lori announced that her goal for the year is to have an HF rig in the: trailer, and having some operating days during the month available to any licensed ham operator, but certainly the club members.

Al Staples N7VOF asked about resolution of the future meeting site for the club, and Lori said that the Board will make a recommendation to the club at the next meeting that we move our meeting site to the Blakemore Building, N.E.4th and 100th Ave N.E.

The meeting was then adjourned.

Respectfully submitted  
Jim Von Seggern KC7FEH  
PARS Secretary

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We are pleased to present in this issue the first of what is hoped will be several articles by Ben Bennet N71VM.

#### Some Thoughts on the G5RV Multiband Antenna

As some members of the club know, I used a half scale G5RV in Bellevue, which worked quite well. When the sunspots went away, I put up a full size one to better work 20 meters. These antennas were not high (about 20 feet above ground, sloping up quickly to the West). They are fairly simple to construct, but they do need an antenna tuner. (NOTE: some early automatic tuners could not handle the G5RV on all bands, but I have not heard of this lately.) G5RV is the man who adapted the antenna for amateur use, and it became quite popular, first in Europe and then in North America.

Over the years, I have communicated with a number of hams who have done work with these antennas, and that which follows is a selection of points that were made.

The REAL antenna is a dipole with each half equal to 51 feet. It is fed by eslher 34 feet of 450 ohm line or 29.5 ft of 300 ohm line. This line, which is PART OF THE ANTENNA, behaves as a matching section to a 75 ohm feed, preferably a twin line rather than coax. The matching section should be at right angles to the dipole, but not necessarily vertical.

One thing of paramount importance; if you use coax from the transmitter to the bottom of the matching section, steps must be taken to prevent RF flowing on the outside of the coax. The best solution is to use a W2DU current balun, immediately following the tuner. The balun is described in an ARRL publication "Reflections--Transmission lines and Antennas", Chapt. 21.

Since I always work "barefoot" I used a length of Teflon coax cable with the jacket removed; over the shield I placed 50 #73 ferrite beads (Amidon FB-73-2401). If you run higher power, then a review of the above referenced chapter should be done.

In a recent issue of Rad-Com, the RSGB Journal, there is a report of some analysis by VE2CV, Jack Belrose, one-time director of the Canadian Dept of Communications Radio Communications Laboratory, on the use of the G5RV as an inverted-V. Summing it up, it wasn't a good idea. The height of the antenna center was modeled at 50 feet, and standard 20 meter dimensions given above were used.

The results of the analysis are as follows:

	apex angle degrees	db gain	take off angle degrees		apex angle degrees	db gain	take off angle degrees
7.15mHz	180	6.7	39	21.15m11z	180	10.11	13
	130	5.7	48		130	7.97	17
	115	5.2	51		115	6.59	18
	90	4.1	55		90	2.44	11
10.15mHz	180	9.74	27	29.00mHz	180	10.25	9
	130	7.4	35		130	7.87	11
	115	6.33	38		115	6.83	12
	90	4.23	43		90	3.44	12
14.15mHz	180	8.21	19				
	130	5.26	21				
	115	7.11	49				
	90	6.26	64				

I have not communicated with VE2CV in some time, but it would be instructive to know whether there are further gains to be obtained if the apex angle is increased further, i.e. an upright-V. I hope this is helpful/instructive.

73 Ben N71VM

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The Board of Directors met Oct. 2 at the home of Al Staples N7VOF. Those present were Lorie Graff N7LC0, Bob Adams KJ7BP, and Al Staples. Also present were Kirk Bellar KE7TN and Tom Grotte WB7TEJ.

Election of a new Board Chairman was postponed due to absence of the Secretary (and current Board Chairman).

Dues for 1998 were set at \$15 for individuals, and \$22.50 for family members (1 and 1/2 times the individual rate). Those joining during the year will pay a pro-rated amount for the remaining portion of the year.

A proposed budget was discussed, and will be submitted for approval at the Oct. meeting. Several topics regarding future club activities were discussed and will be presented at the October general meeting.

A motion was made and seconded, and passed, to recommend to the membership that the meeting site be moved to the Blakemore building in Bellevue starting with the January 1998 meeting.

Respectfully submitted,  
Jim Von Seggern  
Sec.-Treas. PARS

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October birthday  
Nvo Bricel N7AY

Another new feature this time is a short biographical sketch on two of the Board members, Pres. Lorie Graff and Past President Al Staples.

Lorie Graff N7LC0 has previously served as Treasurer of Pars, and was President in 1993 and 1994. She is a bundle of unending energy who is always able to accomplish one more task. She is married to Chuck Graff K7CHV, and by a former marriage is the mother of three and the grandmother to seven.

Lorie owns and operates Jehlor Fantasy Fabrics which specializes in materials and accessories for dancers, entertainers, school drill teams and cheerleaders. Since publishing a new catalog more than a year ago many of the sales are done by mail order. In her spare time she sews table runners, wine bags and tote bags when she is not babysitting or caring for their pet cow.

Lorie and Chuck look forward to retirement near Sequim where they have purchased a piece of land and successfully drilled a well. They have not yet made a commitment to take their pet cow, Tits, with them. (interview by Tom Grotte WB7TEJ)

Al Staples N7VOF lives with his wife Margaret in Bellevue. Al spent 37 years at Boeing. His work covered everything from a B-17 to rocket science. He retired in 1982 but in 1984 he went to work for the famous glass sculptor Dale Chilhuly. This interesting activity continued until 1992. You should see the lovely glass pieces he has.

Al began ham radio in 1994. With his background in electrical engineering he had little trouble with the theory. In fact he has passed several exams more than once because they expired while he was working on his code speed. He now holds an advanced class license. Yes he has passed the extra class theory and it has expired. He also belongs to the the Boeing club BEARS and is active in the Eastside Amateur Radio Support group. (Interview by Bob Adams KJ7BP)

Profiles of the Secretary-Treasurer and V-President will appear in the next issue.

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Well, I think that's enough for one issue. Again I am indebted to Jim Darby W7FYH for filling in for me at the last meeting. Thanks Jim, I couldn't have done this issue without your help!

With the avalanche of submissions and ideas I had waiting when I returned from my recent trip, I don't feel the need to do any editorializing. I welcome news items, suggestions, etc. by phone or e-mail, but please only send something once! Sorting out all the duplications can be a chore. I hope to see you all at the meeting Oct. 16.

73 de Jim KC7FEH

BUDGET FOR PARS

	1996	1997	proposed 1998
Corporation fee	10.00	10.00	10.00
Insurance	260.00	350.00	350.00
Programs	50.00	50.00	50.00
Field Day	50.00	50.00	150.00
Equipment purchase	100.00	100.00	100.00
Trailer expense	300.00	100.00	100.00
Misc. supplies	30.00	30.00	30.00
Newsletter	270.00	200.00	300.00
Refreshments	000.00	100.00	100.00
TOTAL expenses	1070.00	990.00	1190.00
Dues	500.00	472.00	690.00
Equipment sales	250.00	250.00	500.00
Trailer income	150.00	000.00	000.00
TOTAL income	900.00	722.00	1190.00

Note: The income from dues for 1998 is based on 40 individual and 4 family memberships.