

Sonoma County Radio Amateurs, Inc.

Club Station
W6LFJ

P.O. Box 116
Santa Rosa, CA 95402

Repeater Station
WB6PVS



JAN-83 -VOL 8-#1

Cont. from Dec. 82

73Mag-VP2ML©

This same ionization over the equatorial regions provides one of the more interesting propagation modes on 10 meters: back scatter. Strong signals aimed South can refract off the ionization layer over the equator, bounce down to earth, and some small portion

of the signal then bounces back along the same path. Not much of a signal gets through, to be sure, since most of the energy is lost or absorbed in the multiple bounces. But directional signals will be scattered enough by the ground at the other end of the hop to send some energy back North.

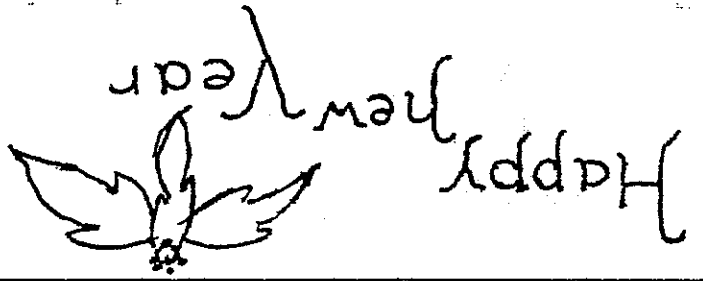
This means it is possible to work other stations North of the Equator, by pointing your beam almost due South! Back scatter signals are very weak, so both stations must point their beams toward the ionization to the South. If you hear a European signal while your beam is aimed South but the signal fades as you swing your beam up to the Northeast, you are probably receiving back or side scatter signals. You can recognize these signals because they are weak and peak to the south, no matter what direction the station is located. If you hear a scatter signal, resist the temptation to swing your beam according to the beam heading chart; the signal will disappear. (If it gets louder, you're not hearing a scatter signal!) Instead swing your beam across the South. listening for the loudest direction, the direction of the most intense ionization, and the most scatter. Note that both stations must be beaming South. If the Dx station hears your signal and swings his beam up to the West to work you, the contact is lost. Explaining this under the weak signal strengths of scatter contacts can be frustrating. I remember spending 20 minutes once trying to convince a station that we could only make contact by both pointing our beams South, and not at each other! Whenever this W4 heard my call from New England, he would swing his beam North and lose it.

Side scatter is very similar to back scatter. The radio waves refract off the side of the ionization region, not the underside. Again, you swing your 10 meter beam back and forth listening for the loudest signal, without regard to the direction of the other station. If you can convince the DX station to do the same thing, you can have a satisfying DX contact.

Since the 10 meter band is near the VHF region, it exhibits some of the exciting propagation modes of VHF bands, including meteor scatter and E-skip.

These short range propagation modes don't often provide much DX, but it helps to learn how to recognize and operate under each mode.

Meteor scatter is radio propagation off the ionized trails left after a meteor rips through our upper atmosphere. Since the Ten Meter Contest coincides with a major meteor shower, you might well hear such signals then. Meteor scatter signals last only a few seconds, because the ionization region quickly dissipates. Your contact must be very short; giving your call three times will probably use up the entire opening! Listen for randomly occurring, quite loud signals which appear and disappear very quickly. If you



-- NIAL

73 & happy New Year!

We'll need lots of volunteers to help make next year the equal of the last, so give some thought to what you feel you can do best and enjoy the most. If you don't want the responsibility of a chairmanship, there are still lots of one-time for short-time projects that you might find enjoyable. Believe it, the more you put into the club the more satisfaction you will get out of it!

I can predict that SCRA will not win small club of the year award next year. We already are over the 100-member limit for small clubs! The best way to get even more hams to join is to manufacture them. We need volunteers right now to teach Novice classes. If you have the time, please call the education chairman (me) at 525-1400 ex 2973 (days) or 838-4524 (n). No experience necessary, and we supply the teaching/study materials and a place to meet, if necessary. Classes are small, so you may prefer to meet in your own home.

I want to congratulate Len K6ANP for a job well done as president for the past 2 years. It will be a tough act to follow. In the last 3 years the club has won the Pacific Div. small club of the year award both of the times it was presented, and I'm sure past presidents K6ANP and KB6LD don are proud of what the club has accomplished during their administrations. We still have much to accomplish in the coming year: On the 13/73 repeater, I think we are finally close to getting the autopatch operational. Although the machine is owned by the County, the club is largely responsible for its maintenance, and this is sure to require effort in the coming year. There has also been talk of putting up a new repeater, paid for by the club, so we can have one to call our very own. The communications trailer needs a new tongue and work done to mount the generator. We have lots of antennas and equipment for it, and now all we need to do is install the gear and put it to use. I'd like to see the trailer used more at public service events and PR displays to better enhance our image with the public. New member KH6PP has agreed to ramrod this effort. W6GFY has consented to continue as Public Relations chairman this year. Van has been very successful working with the Press Democrat since he was appointed late last year. The best way to help him out is to call him whenever you hear of a newsworthy event. (Van Groos, 544-3485) If he can find out well in advance, he may be able to get TV or newspaper camera coverage.

President's Column:

President	AI Bloom	838-4524
V Pres.	Spenser Barnes	526-1514
Sect.	Doug Bender	526-5131
Tres.	Bill Thomas	823-9429
Trailer Mgr.	Gene Piety	523-3081
Activities	Al Schmidt	542-4793
Expr. Chair.	Terry La Duke	528-6412
Board Member	Don Osborne	823-0565
Club Call	W6LFI	
Rptr. Call	WB6PVS	
Short Skipp	Hank Davis	823-7885
Club Badges	Jim Tomer	W6GYM
Explorer Post	Mike Tersarkissovff	N6DBZ
Club GSI Mgr.	Jim Tomer	838-2234
Public Relations	Van Gross	544-3485
After next Board Meeting there will be more names added to this list.		
Club meetings 1st. Wed. each month EOC.		
County Operations Room. 8pm.		
Board meetings week following. Announced at Club Meeting as to location.		
Pacific Mr. Bill Stevens-2074 Foxworthy Ave		
San Jose, CA. 95124 W6ZN		
Vice Dir. Jettie R. Hill, W6RPF 22410 Janice		
Ave. Cupertino, CA 95014		
Scowas Co. EC Hank Davis W6DVA 823-7885		
SF Section SCM Bob Smith Fort Bragg CA.		
964-4931		
RACS- Radio Officer- Herb Sullivan 526-3307		
K6QXB--Assn. RF, Lyle Weck, 526-3233, N6BLN		
Co. Comm. OFFICER-Press Thomson, 527-2677		
W6BPU		

YL NEWS by N6FYV

The YL's that were in Betty's class had their class reunion at the Saddle and Sir-loin on December 6th. Those attending were Gerri N6FCV, Sarah N6FAX, Martha N6FBB, Terri Eggleston N6FYQ, Jan N6FXY, Jeannie N6RQQ, Connie N6FYV, Vlonna N6FYV, Pat N6FYT, Dwanna N6GCD, Helen Dettling N6GTF, Barbara KA6UFO, May N6GZV, Linda N6GYH, Sharon N6GYK, Vi N6HIV, Diane N6GYG, Claudia N6GZV, Toni N6GYI, Mimi N6GYJ, Noni N6HFM, Terri Pannett KF6CA, Cathy WB6UAZ, Dorothy N6RNU, Helen Philips KA6WVR, Betty AG6C, Georgia N6GZU June WDSHCX.

Anita N6GGU, Helen Frehauffer KA6IXJ, Judy KA6RQK, and Louise N6FYL were unable to make the reunion. Arrangements made by AG6C and N6FCV.

An attempt to contact Anita N6GGU in Carbo San Lucas, Anita could not hear Gerri but Betty was able to hear her faintly.

The YL's attending the Xmas party were Sarah N6FAX, Terri KF6CA, Irma KF6FX, Judy KA6RQK, Georgia N6GZU, Barbara KA6UFO, Sharon N6GYK. Fun was had by all.

Georgia N6GZU, Terri KF6CA, and Connie N6FYV set up a Radiogram Traffic booth in Coddington Mall on December 18th.

MERRY CHRISTMAS AND HAPPY NEW YEAR

CONNIE

THE END OF AN ERA

W6GGC Walter Buckley, Past Leader in the Pacific Division, passed away the 14th of December 1982.

Wally is the father of K6ANP's wife, and we send along the Club's sympathy to the family.

Years ago wally paid many a visit to our local Club. He will be missed. 73

CLUB AWARD

At this years Xmas Party N1AL Al Bloom was awarded the Amateur of the Year Award for the out standing Club member for 1982.

Al has been a very active Club Member involved in many activities of which the repeater Chairmanship took up many of his spare hours.

This is the second time the Award has been given in three years. Mike Ter Sarkisoff N6DBZ was the first member to receive this award. Congrats Al.

"ADVENTURES of SWISS FAMILY BROENNIMANN" By BETTY AG6C

On December 1st all was well, Spirits high with ANITA N6GGU and her OM, ERIC and Teenage sons KEN and ACHILLE, aboard their 35 foot Sloop the "KASKELOT". They were approximately 60-80 miles off shore near Cape Lazaro and headed for Cabo San Lucas, southern tip of Baja California.

Ken and Achille keep busy looking for Anitas hiding place for her baked cookies. They also are studying their French and are eagerly awaiting their school assignments from Berkeley. Seems like there is no escaping homework even at sea.

The weather was great for sailing -8 to 10 foot seas, Blue Pacific water, sunny sky and balmy warm air. Anita was clad in tanktop while Santa Rosan's were trying to keep warm in 40 degree weather. Fishing was good, they caught a 2 to 3 foot yellow fin tuna. Not sure who caught it. While we were having left over turkey they were enjoying left over tuna.

They all take turns standing watch and Anita is keeping a watchful eye on Eric as he stands watch.....Maybe Eric is keeping "skeds" with the mermaids while Anita keeps "skeds" on the ham bands with U.S.A., Navy Radiomen and others. One thing is certain Anita is enjoying her new advanced privileges and her ICOM rig is sounding great and her delightful accent is 59 into Santa Rosa. On Thurs., Dec. 2nd. short QSO-- rough sailing- weather was bad-no time for talking on Radio-Maybe the XXL white Pantyhose will be needed to repair the sails, (hi hi).

At noon on Friday Dec. 3rd. they arrived at Cabo San Lucas-Anita reported the Mexican people have been very nice and she is using her Spanish, she speaks several languages. The other members of the family went swimming and diving-90 degree temp and clear blue water. The area is very primitive and Anita especially liked the huts with grass roofs. On Monday at 7 pm on 14,280...Anita will call the YL's at their reunion dinner. They send regards to all. Anita is a member of the SCRA Club.

AG6C

Anita's mailing address until end of Dec. is
Yato Transistorio, Kaskelot
Eric and Anita Broennimann
Capitan de Puerto, La Paz
Baja, CFA Mexico

Anita had a bad storm experience in port--some 17 boats damaged--Anita had minor damage She relayed information for other boats via VHF marine radio. Good Luck...

Courage-HANDI-HAM System

EXPAND YOUR WORLD...Too often the world of a person with a physical handicap is limited, possibly to a single room. It doesn't have to be that way.

Physically handicapped people the world over have discovered how the airways of amateur radio open doors to exciting, challenging and rewarding experiences.

WHAT IS AMATEUR RADIO? Primarily defined as communication between two amateur radio stations, amateur radio (or "ham" radio) is actually a lot more than just that. Ham radio provides an opportunity to visit first hand with people from all points of the globe, to share experience and opinions, to grow personally, to visit friends and to provide vital emergency public service.

Almost anyone can become a ham, regardless of age, disability, previous training or experience. Hams come from all walks of life, with one common bond--the fascination of amateur radio. The COURAGE HANDIHAM SYSTEM can help you study for the amateur radio operator and station license examinations required by the Federal Communications Commission (FCC).

BECOMING A MEMBER HANDI-HAM membership is composed of individuals with physical handicaps who are studying for their licenses and those who have already obtained them; it also includes disabled and non-disabled hams who volunteer their time, effort and services to help the students. Necessary study materials, equipment and personal assistance are provided on a "pay what you can" basis when ever available--but you must learn the material and earn your own license. The most important element in becoming a HANDI-HAM member is an intense personal desire to pass the examination. It may very well involve hard work and study, but once you've passed the FCC exam, there's no other thrill quite like it.

ADVANTAGES OF BEING A MEMBER---1. study guides and materials 2. tutoring and supervision of study by volunteers 3. equipment loan 4. opportunity to attend special training sessions 5. HANDI-HAM newsletter 6. opportunity to help others become radio amateurs 7. volunteer help for installing equipment and antennas 8. regularly scheduled nets on the air to meet other HANDI-HAM members 9. special devices for hams with physical handicaps

HANDI-HAM MEMBERS SAY...HANDI-HAMS means a great deal to me, especially the opportunity to be a member of a big family of friends. I am also very happy to be part of an organization that helps others like myself open a door to a new world. A world that takes me for what i can do and not for what i can't do".
Marlin Gilman WA0AUK

Cont.

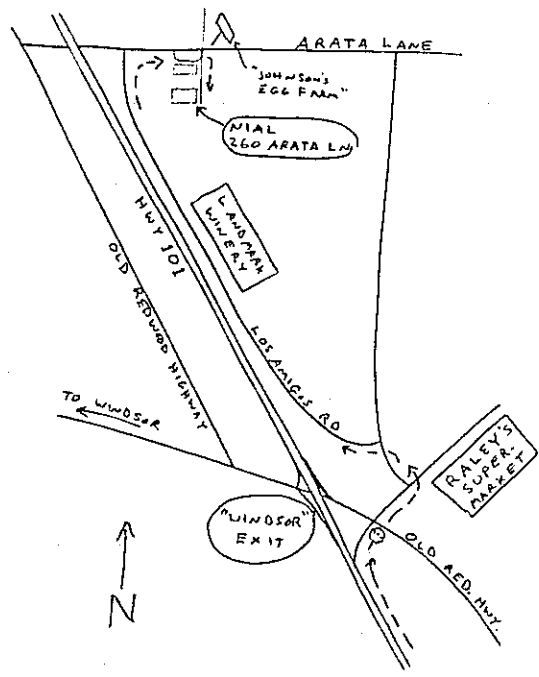
NAME _____
 STREET ADDRESS _____
 CITY _____ STATE _____ ZIP _____
 I am not licensed and would like to learn more about amateur radio.
 I am a licensed radio amateur and would like to volunteer my help--My call is _____

Return to:
 COURAGE HANDI-HAM SYSTEM
 3915 Golden Valley Road
 Golden Valley, MN 55422
 (6120 588-0811

Short Skip

Those interested in joining the SoWP, Society of Wireless Pioneers, write to Bill Brenimen, P.O. Box 530, Santa Rosa, CA. 95402

Next board meeting: Wed. Jan 12
 7:30 sharp
 QTH: NIAL:



We wish to thank K MART and Radio Shack of Farmers Lane for material donated for the Xmas Party. Please repay these fine people by a visit to their stores. Also we thank Geo. Shedore for his fine effort in our behalf. Merry Xmas and a Happy New Year to the above.

We wish to thank Walter Schueller and Billie Lagoria for the many books and hand books.

WSYI REPORT

FCC Authorizes New Radio Control Channels

On November 19th the Commission released a 19 page Report and Order text which provided the additional 80 R/C channels in the 72/76 MHz band in all areas.

FCC AMATEURS FLOCK TO 30 METERS--FCC ISSUES WARNING...CITATIONS

(Quote)--"The Commission wishes to remind amateur radio operators who use recently authorized frequencies in the 10.100 to 10.109 MHz and 10.115 to 10.150 MHz bands that they must stay off frequencies between those bands to avoid interfering with government operations.

"Although a Commission Order adopted on October 28, 82, made some frequencies in the 30 meter band 10.100 to 10.150 MHz available temporarily to General, Advanced and Amateur Extra Class operators, it excluded the portion of the band between 10.109 and 10.115 MHz. Those frequencies are still used for government operations, which cannot tolerate interference.

"Amateur operators who use the unauthorized frequencies in the 30 meter band will be in violation of Section 97.63 of FCC rules, and will be subject to enforcement action."
(End Quote)

ARRL FORCES FCC RECONSIDERATION OF NON-LICENSED RADIO CONTROL DEVICES.

The FCC has partially granted a request by the ARRL seeking reconsideration and stay of a decision allowing more flexibility in the operation of non-licensed low power transmitters for radio control and wireless security systems.

The League contended that because Amateur stations operate at high power levels in residential areas close to homes having burglar alarms and other security systems, there is a high potential for Amateur stations to jam these systems and other security or trigger a false alarm. Moreover, radio control and security devices could interfere with Amateur stations, the League said. Therefore it asked that the 2 meter, 220, 420 MHz area frequencies allocated to the Amateur Radio Services be excluded from use by radio control and security alarm systems.

In reply the Commission noted that because of possible susceptibility and interference problems which might occur between security alarm systems and or high power radio operations, it would expand Part 15 to alert manufacturers to consider, in designing equipment, susceptibility to Amateur radio and other high power operations and to avoid operation on frequencies used by high power stations.

The FCC rejected however the League's contention that it did not follow proper procedures when issuing the rule making. The Commission said it followed the Admin. Procedures Act and ARRL's concerns were considered before final rules were adopted. The ARRL said it believes the result of the action will cause many manufacturers to use other than amateur radio frequencies for their products.

THINGS IN THE MILL FROM FCC----

- 1. Rulemaking--request to expand 10 meters subband for repeaters 29.0 to 29.7.
- 2. to authorize A3 and F3 emission on 7072 to 7100 MHz west of 150 degrees and south of 30 degrees north.
- 3. The ARRL volunteers for exams has been assigned RM-4229
- 4. FCC has denied and dismissed a petition for RM requesting authorization for automatic control of beacon operation in view of their recent ruling docket No. 81-823 permitting this.
- 5. The FCC has issued rule making on Morse Code credit for commercial radiotelegraph operators applying for amateur radio licenses, automatic beacon operations, elimination of all amateur log keeping and Novice exam mail back, decided against expanding 27 MHz CB and authorized 10 MHz to the amateur community during the past 30 day period. I was told that within the next 60 days we could expect to see rule making completely delicensing CB radio, a proposal for a 900 MHz personal radio service, a NPRM on a no code license for the Amateur Radio Service, implementation of the Final Acts of the 1979 WARC and complete transfer of ham testing to the amateur community.

Collins Owners----Write to Dennis Snapp; Collins Radio Co. Station 184-200; Cedar Rapids Iowa 52406. For information on conversion supplies for WARC Bands.

Len's Speech
Ad - Amateur of the Year

SWAP---SALE---WANT---FREE?-----

WB6NBR...545-3813..Yeasu 901 for sale call
Ron.
W6SVQ.....707-459-4211..ICOM 720 A \$900.00
For Sale call Hud..
W6DTV.....823-7885...I have 3 hams that want
2 meter FM gear..Let me know.....
KD6GC.....546-8860...Swan 500 plus power sup.
\$250.00...
WB6ZRP....575-0768...Repair service for amat-
eur gear.phone after 10 am.
WA6JYO....778-7226...Want-Dummy load--Elect-
ronic keyer-Ant. matcher..Call....
KB6LO.....546-7047...If you can't find it
call Don.
WA6RNF....528-6412...SB102-CW Filter-Pwr. Sup
Spkr.-Cab.--\$275.00

Radio Shack

STORE NO. 3855

ZANE BATES
MANAGER

510 FARMERS LANE
SANTA ROSA, CA. 95405

TELEPHONE
546-8423

HAWAII

Tuesday 23 Nov. was a day of days, 140
MPR winds, 30 to 50 ft waves, \$136 Million
damage, 95% electrical power lost on Oahu,
KGU, an emergency BC station only public
information station.

National Weather Service relied on 2 met-
er amateur service to carry the information
around the islands. Later both 2 and 40 car-
ried this service between the islands.
Civil Defense stations were 2 meter amateur
stations and handled many messages through-
out the several days of trouble. After emer-
gency fuel ran out 2 meter hand held and mo-
bile stations went into service. QRP 40 me-
ter equipment was used on Kauia. KN6BZF-15
meter circuit--AH5P and KH6NP40 meter link--
KH6ML 20 meter link.

The weather reporting by amateurs was
very important and apparent when the weather
satellite went down..

There was only one reported death during
the hurricane. A sailor on the USS Golds-
borough, he was crushed by a 30 ft. wave.
ARRL News Letter

XMAS PARTY 1982

A wonderful night out for some 78 mem-
bers of SCRA, Inc and their families. Prizes
for many and plenty of turkey and trimmings for
all.

Steve Schaffer got the QRM Band well filt-
ered and fine music was heard throughout the
evening. Members of the band were Walt N6OH,
lead Banjo, Davis WA6QNA Bass, Emile Banjo,
Helen Electric Organ, Doris Electronic Piano,
and Steve with the Golden Horn. We wish to
thank them one and all.

Two turkeys were left over and raffled to
the group. The lucky winners were in the Band.,
Dave and Walt.

I think everyone won something even Ye
Editor. He came home with two coupons for
full support panty hose--what next?

After the fine Xmas dinner about 33 stay-
ed for dancing, good music, friendship and
also helped to do the final cleanup.

We wish to thank Jim Tomer and others for
their help and to also thank the Country Club
for the use of the Hall. I hope we left it in
fine shape. Thanks again to all that helped in
any way to make this a fine end of the year
Party. Hope for another next year. Merry Xmas
and a Happy New Year.

A VISIT

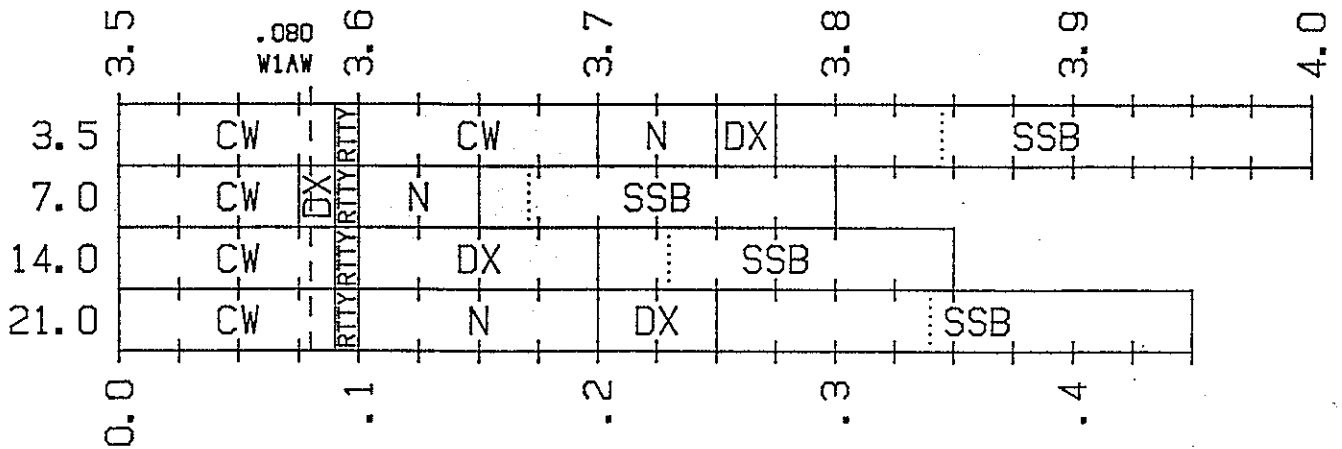
Sunday Morn after the fine Xmas Party Ye
Ed. and Sarah visited the Valley of the Moon
Radio Club Brunch, at the National Golf Club
near Sonoma.

They had about 40 present 6 of which were
members of our Club. KB6LO Don, and Gerri
N6FCV, W6FPL Seymour, and Barbara KA6UFO,
W6DTV and Sarah N6FAX.

A nice Brunch of eggs, Taters, Sausage,
Ham, and Bacon, plus Biscuits and Coffee.
Every one went on a diet the next day.

A raffle was held and SCRA members did ok.
Mike WA6TMH displayed their new remote
base and repeater. It will soon be in operat-
ion. Sonoma uses a simplex frequency of 147.47
MHz and around 8.30 pm each nite someone will
be there.

Sarah and left just before the business
part of the meeting to visit an old friend of
Amateur Radio Frank Jones, W6AJF. He is 80
years young this year and still climbs up and
works on his antenna when his wife is not
looking, cane and all. Still working on 432
and 1296 SSB.



RTTY = 90-100 kHz from low end.

..... = SSTV Freqs: 3.845, 7.171, 14.230, 21.340.

DX = DX phone bands.

N = Novice bands.

(On 20m in particular, the low end of the US phone band is for working DX and the high end for traffic)

BOARD NOTES OF INTEREST

The Club has purchased a Glass Sided Cabinet to display Club Awards, Certificates, Perpetual Records, Trophys, Etc, Amateur of the Year Award also. This cabinet will be kept at the EOC.

The Crop Walk on the 20th of November was a success and is the last Public Service listed for 1982. Thanks to Chuck, Terri, Warren, Jim, Connie, Al Bloom. Its been a good year for Service.

A job description note book will be available after the first of the year to give all new officers an idea of what their office is responsible for. A good idea.

All members please send me any change in call or address or phone number as it is hard to keep good records without same. Editor.

Late Sale--K6GIF--539-2987--Swan 750-520 watts input-Extra set finals--\$400.00.

N6KM-938-5664---TS S20S-CV Filter-Mint \$525.00

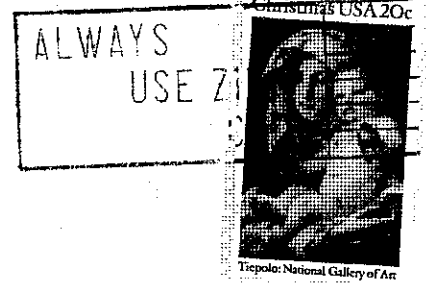
Steve KD6GC is looking for s crank up tower. Anyone knowing of one please get in touch with him. 546-8860

This is the end of another year I hope the last year was fine for you if not get in there and give it or the new year a rousing good try. The old saying about opportunity knocks but once, sure but you have to open the door. Same with the new Club year. There are god things on the way but if you set back and do not take part in them the results will be very little. We have a new list of officers but they cannot do everything by themselves so get in there and push. A squeaky wheel get the attention.....1983 go.....

SONOMA COUNTY RADIO AMATEURS, Inc

P. O. BOX 116

SANTA ROSA, CA. 95402



FIRST CLASS

MR. DOUG BENDER
WA0JRB
3638 HEMLOCK COURT
SANTA ROSA CA 95401