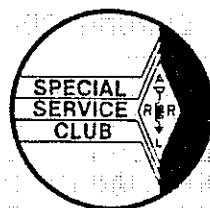


SHORT SKIP

Sonoma County Radio Amateurs, Inc.



MAY 1985

Club Station

W6LFJ

P.O. Box 116

Santa Rosa, CA 95402

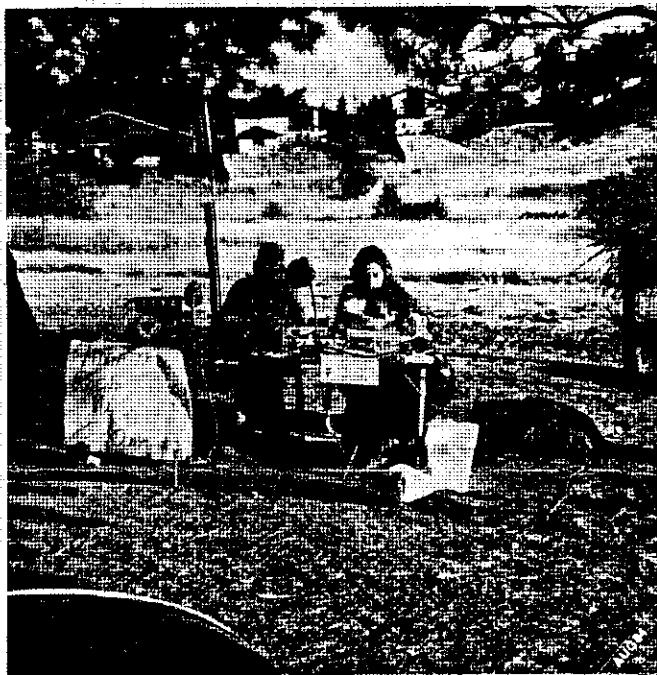
Repeater Station

WB6PVS

VOLUME 10 NR. 5

FIELD DAYS WE HAVE KNOWN

1984



1983



(Thanks to Bob WD6DPE for the photos)

---SONOMA COUNTY RADIO AMATEURS, INC---

FIELD DAY!

-----1985 OFFICERS-----

PRESIDENT: Chuck Sabin N6DDK 795-2371
 VICE PRES: Bob Olsten WD6DPE 546-5593
 SECRETARY: Brian Torr N6IIY 865-2234
 TREASURER: Rudy Mappus N6KLU 664-1978
 ACTIVITIES: Bob Phillips KB6EOC 542-5209
 REPEATERS: Jim Boyett WB6UBA 544-7943
 MBR-AT-LRG: Lyle Meek N6BLN 526-3233

SHORT SKIP: Alan Bloom N1AL e: 838-4524
 260 Arata Ln Windsor 95492 d: 577-3981
 SWAP SHOP: Hank Davis W6DTV 823-7885
 RACES LIAS: Jim Boyett WB6UBA 544-7943
 ARRL LIAS: Alan Bloom N1AL 838-4524
 ASST. DIR: Chuck Sabin N6DDK 795-2371
 PUB. RLATN: Kathi Boyett WB6UAZ 544-7943

-----ACTIVITIES COMMITTEE-----

CHAIRMAN: Bob Phillips KB6EOC 542-5209
 REFRESHMENTS AT MEETINGS: Bob WD6DPE
 GREETER AT MTGS: May Kobold N6GZV
 RAFFLE: Lyman WB6SMY, N6GZV, Terry WA6RNF
 QSL MANAGER: Doug Bender WA0JRB
 FIELD DAY: Gene Johnson W2EBG
 EDUCATION: Tracy Reese WB6TMY
 PROGRAM CHAIRMAN: --OPEN--

HIDDEN XMTR HUNTS: Don Osborne WA6ACX
 PICNIC: Steve Shaffer KD6GC & ?
 XMAS PRY: N6GZV, WB6UAZ
 WALKATHONS: N6KLU, N6KUS, N6GZV, N6GZU
 FLEA MARKET: N1AL W2EBG WB6TMY N6KMJ

-----REPEATER COMMITTEE-----

CHAIRMAN: Jim Boyett WB6UBA 544-7943
 Alan Bloom N1AL Terry Laduke WA6RNF
 Bob Olsten WD6DPE Brian Kotzian KE6WL
 Hoppy Bravin WD6CKP (Westlink b'cast)

CLUB MEETINGS

7:30 PM 1st Wed of every month at the
 Emergency Operations Center (EOC).

NEXT CLUB MEETING: May 1, 1985

PROGRAM: Atomic Clock demo by WA6RDA

Meetings are open to all, member or
 not. Need not be licensed to join.
 Full voting membership is available
 to licensed Amateurs only. Dues are
 \$12.00 per year. First-time members
 also pay an \$8.00 initiation fee.

S <--- Highway 101	---> N
! Co. !	
! Court ! EOC !	! Bicentennial
! House !	! Way
Ventura Ave	
Mendocino Ave.	

Our Field Day plans are coming
 right along. The site will be the
 lake area of the Two Rock Coast
 Guard station west of Petaluma. It
 is a large park-picnic area with
 bathroom facilities and lots of
 trees for antenna supports.
 There's supposed to be good radio
 propagation from there, too!

We would be glad to hear from
 anyone who could furnish the rig
 and be responsible for any one
 frequency band and mode. We still
 need a captain for 15 and 20 meter
 CW and 75, 40 and 20 SSB. Also 2m
 FM. Please contact Gene Johnson
 W2EBG at 578-3104 if you would be
 interested.

Saturday evening there will be
 POTLUCK DINNER. Please bring the
 following: Last names beginning
 with A-E: bread or rolls, F-I:
 veggies/potatoes etc., J-N: salad/
 greens/macaroni etc., O-S: chips/
 dips, T-Z: deserts.

We could also use a volunteer to
 build Field Day receiving filters.
 These are "helical resonators" made
 of large-diameter round metal pipe
 and B&W ready-made coils. April
 1973 QST tells how to do it (N1AL
 has a copy of the article.) The
 club will buy the materials if
 someone will build them. Any
 takers?

-- Gene W2EBG

RADIO SHACK

Store Nr. 3855

Zane Bates, Manager

510 Farmers Lane
 Santa Rosa, CA 95405

Telephone
 546-8423

MINUTES OF THE APRIL 3, 1985 MEETING

The April meeting of the Sonoma County Radio Amateurs, Inc. was called to order by President Chuck Sabin N6DDK at 7:30 PM at the EOC. The following visitors were introduced: Ernie KA6UBO, Scott Ensley (studying for exam), Jack Foster (also studying for exam).

NEW CALLS AND UPGRADES: Lee Snyder KA7NZD has upgraded to General, and will keep KA7NZD.

MINUTES: It was moved and seconded that the minutes of the March meeting be accepted as printed in the April issue of Short Skip. Motion voted on by club and passed unanimously.

TREASURER'S REPORT: The following Treasurer's report was given:

	General Fund	Repeater Fund
Beg. Balance	\$1463.82	\$1658.03
Receipts	+422.90	0
Payments	-77.34	-125.00
Ending Balance	1809.38	1533.03

The payment of \$125.00 from the Repeater Fund was for the purchase of a 450 MHz HT for use as a control transmitter by the Repeater Chairman.

It was moved and seconded that the Treasurer's report be accepted as read. It was voted on by the club and passed unanimously.

REPEATER COMMITTEE: The 450 MHz control receiver has had its antenna reoriented and new connectors replacing the old ones. Also, the squelch tail has been lengthened; it was so short some people didn't think they were making it into the repeater.

ACTIVITIES: Bob KB6EDC has been notified of a meeting to discuss the March of Dimes Walkathon. He will not be able to attend but will send somebody in his place.

It was mentioned that this will have to be Bob's last month as Program Chairman. If we still want programs at the monthly meeting, someone should consider applying for the position of Program Chairman.

EDUCATION: N1AL will coordinate the classes but won't be able to teach. He has received replies from two people who have expressed a desire to teach classes, but no definite commitment has been made by either.

BADGES: Hank W6DTV reports that all badges have been distributed.

QSL CHAIRMAN: Doug WA0JRB was not present to give a report.

PUBLIC RELATIONS: The Grapevine on Channel Fifty KFTY will be announcing the Club's monthly meetings.

RACES: The week of April 15 is Earthquake Preparedness Week, and several drills involving ham radio operators will be staged. The Press-Democrat will publish an insert on the subject of Earthquake Preparedness.

FIELD DAY: Gene W2EBG reports that on Field Day this year (June 22 & 23) the club will operate from the Two Rock Coast Guard Station, west of Petaluma. It is encouraged that Novice and Technicians be allowed to operate the General & above stations to gain experience in HF operating.

SWAP MEET: Al N1AL reports that he needs to get the date of the Swap Meet, September 22, published in QST and other ham radio publications.

OLD BUSINESS: None to report.

NEW BUSINESS: Hank W6DTV reports that the club will be administering examinations on June 1 (Saturday) at 9:00 AM. Send check and copy of current license (if upgrading) to Hank by May 1. He has some forms and will get some more. The tests will be conducted at the EOC.

BILLS & COMMUNICATIONS: In an effort to boost membership in the ARRL, the ARRL is introducing the ARRL Challenge. For each NEW ARRL member who enrolls via the Club, the Club will receive a \$5.00 commission. This applies to individual memberships only; Family, Blind, and Life memberships are not eligible for the \$5.00 commission. Remember the club still gets \$2.00 for each ARRL membership renewal made through the club.

Armed Forces Day is coming up on May 16. The event features crossband contacts between hams and selected military radio stations. Details will be published in the next issue of Short Skip.

The FCC is conducting spot checks of ham stations in the area. The most commonly asked question is "What is the power used to make a contact?" The proper answer is the minimum amount required.

PROGRAM: Lyle N6BLN opened up his black box (it's not really black), which contains all the necessities for operating under emergency conditions. It includes logs, emergency plans, miscellaneous power cords and adapters, food, toiletries, flashlight, and much more.

Hank W6DTV showed us how he has two complete stations in one small box. He has two other boxes which have power cord adapters for HT's, extra batteries for HT's, RF connectors and adapters, and many more odds and ends to put (and keep) a station together in an emergency.

The judging of the four entries in the HOMEBREW CONTEST was going on during Lyle and Hank's presentations. John DeMuth W6GYG took the top honors.

The \$7.05 in the attendance raffle was lost by our past Club President Jim Tomer W6CYM.

The meeting was adjourned at 9:25 PM.

-- N6IYY Brian Torr, Secretary

TREASURER'S REPORT, MARCH 1985

Beginning Balance: 1463.82

RECEIPTS:

Dues: 258.00
Coffee & Donuts: 11.90
Raffle Income: 28.00
Repeater Fund Reimburse. 125.00
(Control Radio Purchase) 422.90

Ending Balance: 1809.38

PAYMENTS:

Coffee & Donuts: 8.67
Raffle Prizes: 25.99
Badges: 3.18
Supplies: 4.20
Westlink Donation 25.00
Westlink Phone Charges 10.30
(January and February) 77.34

REPEATER FUND:

Beginning Balance = \$1658.03
Control radio reimburse. = -\$125.00
Ending Balance = \$1533.03

THE ART OF QSL'ing (PART II) by Doug Bender WA0JRB

As we mentioned last month, QSL'ing starts with your own QSL cards. Let's assume you now have your cards and have accumulated QSO's with all 50 states! How are you going to get that Worked All States award? First, fill out the cards based on your log entries. (I hope you're keeping a log... but that could take up another article.) Print legibly or type the necessary information, which (at a minimum) should include the date and time, station callsign, band, signal report, and mode (CW, SSB, RTTY, etc.). Again, I suggest you use GMT or Universal Time (UTC) for the date/time. Since it is a world standard, virtually everyone outside the Pacific time zone can relate to it. (Especially, when daylight savings time goes into effect.)

Now, a brief word on getting "stateside" QSL's. Let's face it, California, New York, Texas, and probably Florida are the most populated states in terms of the number of radio amateurs. Unless you worked all of those 50 stations in the Novice bands, the likelihood of someone wanting another California card is pretty slim. (By the way, working Novices is a great way to get your WAS -- and probably is the least expensive and the most satisfying way!)

Thus, you must pay the return postage if you hope to get a card back. Fill out a self-addressed, stamped envelope (SASE) and be sure you have enough postage on it (currently 22 cents). Fold the envelope in half, put the QSL card between the fold, and insert into the destination envelope, fold DOWN. The reason for this is that if the destination amateur uses a letter opener, your SASE will not be cut in half!

Where do you get his/her address? Several people now print "callbooks" including the original "Callbook" and most recently the ARRL. If you don't have a callbook, ask a buddy for help. Also, the club has two -- one indexed on callsign, the other on QTH.

A couple of hints: Try to add a comment or two on the QSL regarding the QSO, like "your TS-820 is sure doing a nice job -- very clean signal" or "I'm working on the Worked All States and would really appreciate your QSL." This may move an otherwise unmotivated (should I say lazy) ham into returning his/her card in your envelope.

One last point -- don't expect a 100% QSL return. Addresses change (I read once that, during the 1970's, the "average" American moved every 3-4 years!) Some hams don't want to bother looking you up in their logs, some don't even have their own cards, and some just don't even want to bother. This is especially true when you're asking for a card from that QSO that took place over a year ago. And don't expect a quick response on those cards you carefully mailed out. The other ham could be on vacation, out on business, or simply answers his/her mail only once a month!

So, be timely in sending out your QSL cards, and most importantly, BE PATIENT!!!

Again, thanks to the following references: "The Complete DX'er" by W9KNI Bob Locher, ARRL materials, and Lyle N6BLN.

More next month. -- 73 Doug WA0JRB

P.S. If any of you have any hints, questions, or suggestions, forward them to the club's address c/o myself or discuss them with me at the next club meeting.

N - E - W - S of Amateur Radio

NASA BACKS OFF ON HAMS-IN-SPACE. No orbitter modifications whatsoever will be permitted which rules out the 10 M antenna in the cargo bay. This nixes both the 2-to-10 meter repeat mode and two-way SSTV. They still plan a SSTV downlink on 2 M. W00RE & W4NTZ's operating hours have also been scaled back -- they will focus on clubs & schools. (W5YI)

FIELD DAY: A BONUS FOR PACKET RADIO contacts of 100 points has been announced. The no-repeater rule has been waived for packet QSO's, and the packet station does not count as an additional transmitter. (ARRL)

NCCC WINS SWEEPSTAKES. The Northern Calif. Contest Club won the "unlimited" club category with 7,607,843 points, over 2 million higher than the second place finisher. (ARRL)

THE ARRL EXECUTIVE COMMITTEE voted March 23 to: -- File in opposition to FCC's proposal to increase cable TV leakage specs, Docket 85-38 (see article) -- support Docket 85-51 that prohibits radiocommunications by persons whose amateur licenses have been revoked, -- argue against eliminating the waiting period and public notice requirements for VE testing (Docket 85-21), and finally -- oppose the expansion of radio-location into 160 Meters.

ARRL is still talking to FCC about giving assistance in the issuance of callsigns. General Manager Dave Sumner K1ZZ will prepare an options paper concerning Docket 85-22 (repeater coordination) to present at the May 7 EC meeting. ARRL will ask FCC for a 45-day extension on the filing deadline so the full Board can consider it at their meeting July 25. (ARRL)

PS: you can get a copy of ARRL's cable radiation filing (85-38) from ARRL for an SASE with \$.56 stamps.

NARC TABLES 20 KHZ. At their meeting April 13, the Northern (Calif) Amateur Relay Council turned

down the NARC board of director's proposal to switch over to the Pacific Northwest's 20 kHz 2 meter repeater bandplan. The plan is to be studied further to see if all current 2m users could still be accommodated. Representatives from Washington, Oregon and British Columbia were present to explain the 20 kHz system. (Tnx N6DDK)

SOUTHERN CALIFORNIA also will stay with 15 kHz since TASMA voted overwhelmingly not to switch at a 7 hour meeting March 23. A "packet digipeater" subband was also created on five 20 kHz channels between 145.01 and 145.09. (Westlink)

ALABAMA GOES 20 KHZ. IMMEDIATELY! At a meeting March 2, The Ala. VHF-UHF Council voted to implement the 20 kHz bandplan above 146 MHz with no phase-in period. All repeater owners must notify the 2M coordinator by July 1, 1985 that they have complied, or their frequencies will be considered non-coordinated. Commenting on the effect on surrounding 15 kHz states, one repeater owner stated that the feeling was that it was a dilemma for neighboring freq. coordinators and was "not Alabama's problem." (W5YI)

MINNESOTA is also considering 20 KHz, following the lead of neighboring Michigan.

INDIANA will remain with 15 kHz between 146-148 MHz. In Ind., the Coordination Council is a part of the ARRL field organization. A poll in the section newsletter brought replies from 91 repeater owners. 72 indicated that they prefer 15 kHz over 20 and 86 say that they wish to retain the current plan rather than form a new and separate repeater coordinating body. (Westlink)

FCC WILL PROBABLY ADOPT A SINGLE NATIONAL FREQUENCY COORDINATOR, according to W5YI, as they are doing in the land mobile service. Better get your comments in on docket 85-22!

THE 1985 REPEATER DIRECTORY should be available by the end of April, just in time for Dayton. It lists 9351 repeaters (up 14.3%), 5931 on two meters (up 7.5%). 220 MHz has 1758 entries up 32.1%. Price is \$3.00 or \$2.75 each for 5. (ARRL)

THE RE RADIATION HAZARD REVIEW will not apply to amateur radio according to an FCC Report and Order issued March 14. FCC accepted ARRL's comments that indicated that radiation from amateur stations is intermittent and relatively low power. (W5YI)

PHONE OPERATION BETWEEN 7075-7100 kHz would be permitted in all US jurisdictions outside the contiguous 48 states under FCC docket 85-104. Comments due by June 17. (ARRL)

AUTOMATIC CONTROL ABOVE 30 MHz is proposed by FCC in docket 85-105. This would allow packet radio bulletin boards. (ARRL)

FCC's NEW VEC INSTRUCTIONS concerning testing the handicapped indicate that the nature of the person's disability should be taken into account when choosing questions. For example, "questions involving diagrams may be a poor choice for a blind person. No qualified person should fail an examination solely because of a handicap... The knowledge and skills needed to qualify for an amateur license are exactly the same for everyone..." (W5YI)

CERTIFICATE OF COMPLETION NO GOOD for proof of license when upgrading according to the FCC Gettysburg office. ARRL is asking for a clarification, arguing that if the certificate is considered as valid proof of upgrading for operating purposes, it should be for further upgrading as well. (ARRL)

NEW CALLS ISSUED AS OF MARCH 1:
 Group-A Group-B Group-C Group-D
 Extra Advanced Tech/Gen Novice
 WE6X KG6FA N6LRI KB6HVP

New novice applications take about 16 working days at the Gettysburg licensing office. Upgrades take about 6 weeks due to additional processing through the VE/VEC system. (W5YI)

BASH EDUCATIONAL SERVICES GOES ORI. Dick Bash, as many know, made many thousands of dollars selling lists of questions and answers cribbed from FCC exams. In a letter sent to creditors and uncompensated subscribers to his part 97 update subscription, Dick Bash explains that with all the FCC questions and answers in the public domain, he "has nothing to sell." (W5YI)

CHEATING DETECTED ON VEC EXAMS. VE KB9V of Lakeville Ind. noticed two applicants writing down scribble marks instead of code text. Their answer sheets had perfect scores for last month's test! Once discovered, one of the applicants bolted for the door taking his FCC 610 form with him. The other admitted that a third applicant had recorded the code test using a micro-recorder at the previous session. The VE team was able to confiscate the crib sheets and pass along all papers and the identities of the persons involved to the VEC so they can notify the FCC's Compliance Branch as required by the FCC instructions to VEC's. (W5YI)

LIMITED FCC PRE-EMPTION ON IVRO's. FCC has proposed a "limited pre-emption" of local zoning regulations that would prohibit unreasonable restrictions on satellite receiving dishes. W5YI claims that this makes it more likely they will act favorably on PRB-1, the ARRL's request to do the same for ham antennas.

THANKS to the W5YI Report, ARRL Letter, Westlink Report and N6DDK for permission to reprint this information.

SCRA FILES IN OPPOSITION TO PR 85-38 by Steve Lund WA8LLY

SCRA filed in opposition to the recently released PR 85-38. In this docket, the FCC proposed to increase the allowable signal leakage from CATV systems. The major part of the SCRA filing was measurements made on the Santa Rosa (Total TV) Petaluma (Viacom) and Fort Bragg (Teleprompter) systems. The measurements were performed by Al Bloom N1AL and former member Scott Roleson KC7CJ using equipment borrowed from Hewlett-Packard. All three systems are not in compliance with current FCC regulations. Even with the weakened standards proposed in PR 85-38, only the Petaluma system would be in compliance.

A major reason for the FCC proposal to increase the allowable signal leakage was their claim that computers, etc. are not causing interference to receiving equipment. This is based on the lack of complaints of interference being caused by computers since implementation of EMI specifications in 1976. The moral to this story is that you should not suffer interference in silence. If your neighbor's computer, garage door opener, etc. is causing interference you should report it to the FCC and the ARRL. The ARRL has forms available to report such problems. EMI, RFI and TVI will not go away if we remain silent.

I would like to thank Al N1AL, Brian N6IIY and Doug WA0JRB for their help in preparing the SCRA filing for PR 85-38.

[Editor's note: I know I speak for the club in thanking you, Steve, for taking the time and trouble to prepare this filing.]

SUGGESTED 1985 BUDGET

(For fiscal year Mar 85 - Mar 86)

Christmas Party:	\$150.00
Field Day:	100.00
Potluck:	25.00
Picnic:	125.00
Public Relations:	100.00
Badges:	100.00
Insurance:	90.00
Short Skip:	500.00
Supplies/Printing/Postage:	125.00
Trophies:	50.00
World Radio "Deal":	60.00
Westlink Donations/Phone:	250.00
Generator Maintenance:	50.00
Secretary's Expenses:	60.00
Treasurer's Expenses:	30.00
Miscellaneous:	70.00
Reserve for Unexpected Exp.	150.00
TOTAL EXPENSES:	\$2025.00
Dues:	1200.00
Initiation Fees:	150.00
Flea Market:	500.00
Raffle at meetings:	150.00
Misc:	100.00
TOTAL INCOME:	\$2100.00

MEMBERSHIP DRIVE

As of the next issue of Short Skip, the club plans to get a bulk mailing permit. The postage is much cheaper, but there is a 200 piece minimum. We plan to use the 80-100 extra copies as free samples for hams in the county who are not now members. We'll send to a different 80-100 each month with each ham in the county getting about one issue a year. We'll have a special mailing right away of an "invitation-to-join" letter to a list of about 50 recent upgrades (list from World Radio Magazine and ARRL).

12 V SOLDERING IRONS. Ref N6BLN's comment that everyone should have one of these in their emergency toolbox: Dick Smith Electronics, POB 2249, Redwood City, CA 94063 has them for \$3.95 each. Include 5% (min. \$1.50) for postage/handling and 6.5% CA sales tax.

EVENTS CALENDAR:

MAY:

- May 1 - Application deadline for SCRA FCC Exams June 1
- May 1 - Club meeting EOC 7:30 PM
- May 3/5 - West Coast VHF/UHF Conf. Sunnyvale Hilton
- May 3/5 - Fresno Hamfest
- May 5 - Roseville Flea Market
- May 6 - RACES Nets, 7PM/7:30 PM
- May 8 - Club meeting EOC 7:30 PM
- May 18 - Armed Forces Day, Mare Is
- May 20 - RACES Nets, 7PM/7:30PM
- May 25/26 - CQ WW WPX Contest

JUNE:

- Jun 1 - SCRA FCC Tests, Contact W6DTV (See swap shop)
- Jun 3 - RACES Nets, 7PM/7:30 PM
- Jun 5 - Club meeting EOC 7:30 PM
- Jun 8/9 - VHF QSO Party
- Jun 14 - Teleconference Radio Net (Topic: Amateur Satellites)
- Jun 17 - RACES Nets, 7PM/7:30 PM
- Jun 22/23 - FIELD DAY
- Jun 29 - Marin Co. FCC tests. Deadline May 29

JULY:

- Jul 13/14 - IARU Radiosport Contest

AUGUST:

- Aug 3/4 - UHF Contest
- Aug 9/11 - ARRL SW Div. Convention (Long Beach, CA)
- Aug 11 - VOM (Sonoma) Flea Market
- Aug 24 - SCRA Picnic

SEPTEMBER:

- Sep 14/15 - VHF QSO Party
- Sep 21 - SCRA Flea Market

OCTOBER:

- Oct 4/6 - ARRL National Convention (Louisville, KY)
- Oct 5/6 - ARRL QSO Party, CW
- Oct 12/13 - ARRL QSO Party, Phone
- Oct 19/20 - Simulated Emergency Test

NOVEMBER:

- Nov 2/3 - Sweepstakes, CW
- Nov 16/17 - Sweepstakes, Phone

DECEMBER:

- Dec 7 - SCRA Christmas Party
- Dec 7/8 - 160 Meter Contest
- Dec 14/15 - 10 Meter Contest

Fresno Hamfest May 3-5. Tropicana Inn, 4061 N. Blackstone, Fresno. For info: Fresno Hamfest POB 783 Fresno, CA 93712. Talk in 34/94.

West Coast VHF/UHF Conference May 3-5, POB 4101, Fremont, CA 94539. Held at Sunnyvale Hilton Gamay Room.

Roseville (Sacramento) Flea market May 5, 9AM-3PM at Placer Co. Fairgrounds. Talk in on 144.59/145.19 & 223.18/224.78. For Info: KA6KWB, 2942 Gwendolyn Way, Rancho Cordova, CA 95670, 916-366-9111.

ARMED FORCES DAY: Sat. May 18.

Cross band QSO's with military stations operating on following:

FREQ/MODE/STATION	FREQ/MODE/STATION
4001.5 LSB NPG	13514.0 RTTY WAR
4010.0 CW NPG	13927.5 RTTY NPG
4015.0 CW NMH	13975.5 CW NPG
4025.0 LSB AIR	13986.5 RTTY AIR
4028.5 LSB WAR	13992.5 USB WAR
6970.0 CW NPG	13997.5 CW AIR
6995.5 CW AIR	14375.0 USB NPG
6997.5 CW WAR	14385.0 SSTV NPL
7301.5 LSB NPG	14389.5 SSTV NAV
7306.5 RTTY AIR	14400.0 Varies NAM
7315.0 LSB AIR	14403.5 CW WAR
7346.5 LSB NMH	14408.0 USB AIR
7365.0 CW NPG	14440.0 RTTY NMH
7372.5 RTTY NAV	14480.0 USB NZJ
7375.0 RTTY NZJ	20937.5 USB NMH
7382.5 RTTY NPL	20995.5 USB WAR
7393.0 Varies NMN	20998.5 CW NPG
10259.5 CW NPG	21460.0 USB NPG

(AIR=Air Force Wash DC, NAM=Navy Norfolk VA, NAV=Navy Cheltenham MD, NMH=Coast Guard Alexandria VA, NMN=CG Portsmouth VA, NPG=Navy Stockton CA, NPL=Navy San Diego CA, NZJ=USMC El Toro CA, WAR=Army Ft. Meade MD.)

RECEIVING TESTS will each be preceded by a 10 minute call. CW begins at 19/0300 UTC (GMT) at 25 wpm, RTTY at 19/0345 UTC at 60 wpm using 170 Hz shift:

AIR: 6995.5 and 13997.5
 NAM: 4005, 7393, and 14400
 NAV: 7372.5 and 14389.5
 NPG: 4010, 7365, and 13975.5
 WAR: 4028.5, 6997.5, and 14403.5

T - E - C - H N - E - W - S

A PRODUCT REVIEW INDEX for all QST's 1976-1984 appears in the March 1985 issue of QEX magazine. It runs 6 pages of small type. If enough interest is expressed, your newsletter editor will make photocopies to distribute at club meetings.

PACSAT SATELLITE NEWS: The packet radio satellite now being built will operate as a packet bulletin board service (PBBS) with 2-4 megabytes of RAM storage. To access the satellite, you will need a standard AX.25 packet controller and some special radio/modems.

Because it will be launched on a future space shuttle mission, it has special requirements to meet: safety tests to protect the crew and size constraints (20" x 19" D. cylinder). Donations to PACSAT may be sent to Dr. Gary Garriott, VITA PACSAT Project Officer, 1815 North Lynn St., Arlington, VA 22209. (Gateway)

SACFAC, THE SACRAMENTO PACKET GROUP formed under the Sacramento Amateur Radio Club, Inc., W6AK, plans to install a high-level digipeater in the Sierra Nevada this year. It will be a major node in the proposed Central Valley chain which will run North-South through the center of the state. The club should also have a mailbox system operating on 145.09 MHz by early summer. (Gateway)

Thanks to ARRL's "Gateway" packet-radio newsletter and "QEX" their experimenters' journal.

ATOMIC CLOCKS will be the subject of the program for the May meeting. Gerard Wilson WA6RDA of True Time Systems will demonstrate one of his company's products and discuss applications with satellites, etc.

PUBLIC RELATIONS: Did everybody see the half-page writeup about Ham Radio and RACES on the front cover of the Press Democrat's Metro Edition April 16? Congrats to K6QXB and others for the fine PR.

----- HANK'S SWAP SHOP -----
Hank Davis W6DTV 7822 Washington Ave
Sebastopol, CA 95472 823-7885
(Noncommercial ham ads printed free)

HEATH MONITOR SCOPE HO-10. WANT:
1614 tube (sub for 6L6). Tracy
WB6TMY 527-8124.

WANT: Leather case for Yeasu 208R
2 meter HT. KB6EOC 542-5209.

TS8205, 820 VFO, SP820, Shure mic.
Also Heath 24 Hour clock with hours,
minutes & seconds W6DTV 823-7885.

MICROLOG AR1 RTTY/CW keyboard for
VIC 20 with manuals \$135. KENWOOD
401 (440 MHz) w/SS32 tone encoder
brand new \$300 firm. DRAKE Marker
Luxury 2m rig (xtals for local rpters
etc.) with internal AC/DC power
supply \$150. DGM MVD-1000 Morse
video display \$50. ICOM 22S synthe-
sized rig needs work \$35. VIC-20 w/
smoked power supply \$25. George
KS6W 528-0201.

YAESU FT-127 (220 MHz) 12 channel 10
watt w/3 xtals \$150 mint. MIRAGE P-
24, 440 MHz amplifier \$130. Terry
KH6QU (Novato) 415-883-2719.

FLEA MARKET NEWS:

The FCC exams at the Flea Market (Sept 21) this year will accept applicants on a walk-in basis. There will be limited seating, however, so to assure yourself a place, you can register in advance. W6DTV is the contact person again.

FCC EXAMS: SCRA will conduct Technician thru Extra class exams on Saturday, June 1 at the EOC in Santa Rosa. Application deadline is MAY 1. Send your completed FCC 610 form, a photocopy of your license (if any), and a check for \$4.00 made out to "ARRL/ VEC" to: Hank Davis W6DTV, 7822 Washington Ave., Sebastopol, CA 95472. Phone 823-7885.

SCRA PAID-UP MEMBERS AS OF 4/12/85:

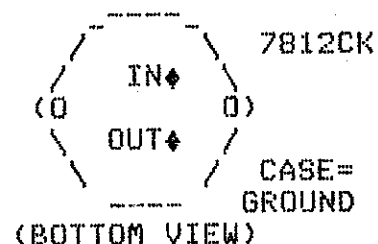
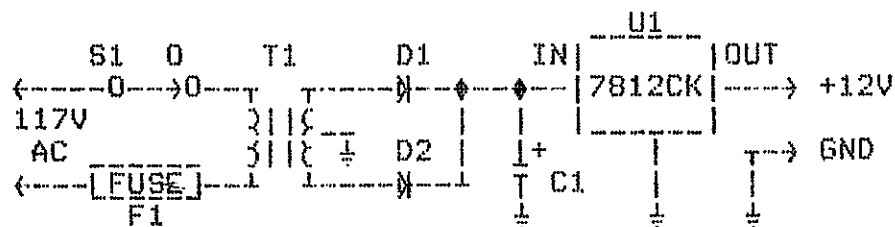
#1: DON CALL: OSBORNE ADDR: WA6ACX 9070 GREEN VALLEY SEBASTOPOL CA 95472 PHONE: 829 0565 CLASS: FAMILY	PAT SCHAFER KF6AG 2320 MARK W SPRING SANTA ROSA CA 95404 546 8860 FAMILY	AL BLOOM N1AL 260 ARATA LANE WINDSOR CA 95492 838 4524 FULL	ALBERT STYLES K6ALI 2407 FRANCISCO AVE SANTA ROSA CA 95401 545 9407 FAMILY
#5: LYLE MECK CALL: N6BLN ADDR: 1469 LUPINE DR. SANTA ROSA CA 95401 PHONE: 526 3233 CLASS: FULL	H.L. (LARRY) CLARK N7BMZ 7708 SONOMA HWY SANTA ROSA CA 95405 823 1155 FULL	BOB SHRADER W6BNB 11911 BARNETT VAL. SEBASTOPOL CA 95472 823 9122 FULL	JAMES HOBART KA6BYX 2053 HUMBOLT ST SANTA ROSA CA 95404 546 3225 FULL
#9: BETTY BRAVIN CALL: AG6C ADDR: 3411 COFFEY LANE SANTA ROSA CA 95401 PHONE: 542 6750 CLASS: FAMILY	TERRI FANNETTE KF6CA 5961 YERBA BUENA SANTA ROSA CA 95405 539 7715 FULL	HOPPY BRAVIN WD6CKP 3411 COFFEY LANE SANTA ROSA CA 95401 542 6750 FAMILY	CHUCK SABIN N6DDK 8345 BRAND LANE PENNGROVE CA 94951 795 2371 FULL
#13: FRANCIS RALPH CALL: N6DIP ADDR: 901 WASHINGTON ST CALISTOGA CA 94515 PHONE: 994 6618 CLASS: FULL	DAVE ELMORE KB6DJG 1727 LAGUNA RD SANTA ROSA CA 95401 FULL	JOHN KOBOLD KA6DJY 2433 APPLETREE DR SANTA ROSA CA 95401 544 5330 FAMILY	BOB OLSTEN WD6DPE 3723 ARIZONA AVE SANTA ROSA CA 95405 546 5593 FULL
#17: EVELYN STYLES CALL: WA6DQZ ADDR: 2407 FRANCISCO AVE SANTA ROSA CA 95401 PHONE: 545 9407 CLASS: FAMILY	HENRY DAVIS W6DTV 7822 WASHINGTON AV SEBASTOPOL CA 95472 823 7885 FAMILY	BILL THOMAS WD6DXW 5341 THOMAS RD SEBASTOPOL CA 95472 823 9429 FULL	DON CHRISTENSEN W6DZM 2210 OAKHILL DR SANTA ROSA CA 95404 545 2324 FULL
#21: BOB BENDT CALL: K6EAN ADDR: 18 TERRACE DR COTATI CA 94928 PHONE: 792 1525 CLASS: FULL	GENE JOHNSON W2EBG 2437 WIDGEON CT SANTA ROSA CA 95401 578 3104 FULL	ROBERT PHILLIPS KB6EOC 1508 PLUMERIA SANTA ROSA CA 95401 542 5209 FULL	SARAH DAVIS N6FAX 7822 WASHINGTON AV SEBASTOPOL CA 95472 823 7885 FAMILY
#25: JACK GUGGOLZ CALL: N6FQZ ADDR: 1123 PALOMINO RD CLOVERDALE CA 95425 PHONE: 894 5798 CLASS: FULL	IRMA OSBORN KF6FX 9070 GREEN VALLEY SEBASTOPOL CA 95472 829 0565 FAMILY	STEVE SCHAFER KD6GC 2320 MARK W SPRING SANTA ROSA CA 95404 546 8860 FAMILY	BILL HILLEDAHL KH6GJV PO BOX 4151 SANTA ROSA CA 95402 539 2791 FULL
#29: HELEN DETLING CALL: N6GTF ADDR: PO BOX 962 PETALUMA CA 94953 PHONE: 762 4087 CLASS: FAMILY	KEN MORTON N6GXI 480 NANNET AVE SANTA ROSA CA 95401 584 8834 FULL	JIM T. HALL W6GYV 20747 TEMELEK DR SONOMA CA 95476 938 1559 FULL	MAY KOBOLD N6GZV 2433 APPLETREE DR SANTA ROSA CA 95401 544 5330 FAMILY

#33:	KEN HARRISON CALL: KB6HVO ADDR: 1525 ATLANTA CT APT: H SANTA ROSA CA 95405 PHONE: 527 9267 CLASS: FULL	BARRY HIRSCH CALL: KB6HVP ADDR: 427 CAMBIASO PL SANTA ROSA CA 95405 PHONE: 539 6833 CLASS: FULL	PAUL R. PHILLIPS CALL: KD6IB ADDR: 151 ALDERBROOK DR SANTA ROSA CA 95405 PHONE: 546 6986 CLASS: FULL	BRIAN TORR CALL: N6IYY ADDR: PO BOX 218 MONTE RIO CA 95462 PHONE: 865 2234 CLASS: FULL
#37:	NATT WALSH CALL: WB6JQP ADDR: 405 PETERSEN LANE PETALUMA CA 94952 PHONE: 664 1978 CLASS: FULL	DOUG BENDER CALL: WA6JRB ADDR: 3638 HENLOCK COURT SANTA ROSA CA 95401 PHONE: 526 5131 CLASS: FULL	JOHN DeMUTH CALL: W6JXZ ADDR: 8862 OAK TRAIL RD SANTA ROSA CA 95405 PHONE: 833 4600 CLASS: FULL	KEN PERRY CALL: N6KIJ ADDR: 246 MALET ST. SONOMA CA 95407 PHONE: 938 3114 CLASS: FULL
#41:	RUDY MAPPUS CALL: N6KLU ADDR: 374 SPRAVEN RD. PETALUMA CA 94952 PHONE: 664 1978 CLASS: FAMILY	JACK JACKSON CALL: W6KNO ADDR: 18 HIGHGATE RD KENSINGTON CA 94707 PHONE: 762 7346 (D) CLASS: FULL	MARIE MAPPUS CALL: N6KUS ADDR: 374 SPRAVEN RD. PETALUMA CA 94952 PHONE: 664 1978 CLASS: FAMILY	WALTER FRANSON CALL: WB6KXN ADDR: 5325 MARIT DR SANTA ROSA CA 95405 PHONE: 539 4094 CLASS: FULL
#45:	PHILIP COPENHAVER CALL: N6KZS ADDR: 48 LARK CENTER DR SANTA ROSA CA 95401 PHONE: 542 2218 CLASS: FULL	LANNETTE ROBERGE CALL: N6LCR ADDR: 7124 ADRIAN DR RHONERT PARK CA 94928 PHONE: 795 6611 CLASS: FAMILY	JOSEPH ROBERGE CALL: N6LCS ADDR: 7124 ADRIAN DR RHONERT PARK CA 94928 PHONE: 795 6611 CLASS: FAMILY	ART HAGOPIAN CALL: W6LGG ADDR: 34 LAUREL AVE PETALUMA CA 94952 PHONE: 762 2132 CLASS: FULL
#49:	STEVE LUND CALL: W6BLLY ADDR: 1055 JENNINGS AVE SANTA ROSA CA 95401 PHONE: 526 6197 CLASS: FULL	RICHARD JOY CALL: WB6MCE ADDR: 1025 DANBECK AVE SANTA ROSA CA 95404 PHONE: 542 8444 CLASS: FULL	HAROLD FROELICK CALL: WB6MFL ADDR: 220 FAIRHILL DR ORVILLE CA 95965 CLASS: FULL	CHOD HARRIS CALL: VP2ML ADDR: 3529 DEER PARK DR SANTA ROSA CA 95404 PHONE: 526 2198 CLASS: FULL
#53:	HOPPY SR HOPKINS CALL: K6MUP ADDR: 3982 VINEHILL RD SEBASTOPOL CA 95472 PHONE: 823 7182 CLASS: FULL	LYLE ANDERSEN CALL: K6MZ ADDR: 10625 CANYON RD FORESTVILLE CA 95436 PHONE: 887 2166 CLASS: FULL	AL SCHMIDT CALL: KD6NT ADDR: 2779 LESLIE SANTA ROSA CA 95404 PHONE: 542 4793 CLASS: FULL	RALPH JOHNSON CALL: W6NTZ ADDR: 885 CRINELLA PETALUMA CA 94952 PHONE: 763 9616 CLASS: FULL
#57:	LEE SNYDER CALL: KA7NZO ADDR: 19415 REDWOOD DR MONTE RIO CA 95462 PHONE: 865 1269 CLASS: FULL	WALT BRUNN CALL: N6OH ADDR: PO BOX 283 PETALUMA CA 94952 CLASS: FULL	FRANK GLEASON CALL: KB6OK ADDR: 6042 DELLA CR RHONERT PARK CA 94928 PHONE: 584 0907 CLASS: FULL	ROBERT MILLER CALL: K6PCX ADDR: 150 CALLE DEL SOL BODEGA BAY CA 94923 PHONE: 875 3737 CLASS: FULL
#61:	FRANK DEITLING CALL: WA6PXW ADDR: PO BOX 962 PETALUMA CA 94953 PHONE: 762 4087 CLASS: FAMILY	WARREN KLINGER CALL: WB6RHP ADDR: PO BOX 23 JENNER CA 95450 PHONE: 632 5459 CLASS: FULL	TERRY LADUKE CALL: WA6RNF ADDR: 1512 PLUMERIA DR SANTA ROSA CA 95401 PHONE: 528 6412 CLASS: FULL	VERN MILLER CALL: K6ROP ADDR: 551 CLEMENT DR SANTA ROSA CA 95401 PHONE: 545 5105 CLASS: FULL

#65:	GEORGE LEFFINGWELL CALL: KN6S ADDR: 1945 PINER RD APT: 192 SANTA ROSA CA 95401 PHONE: 523 2436 CLASS: FULL	LYMAN WILTSHIRE WB6SMY 1000 ADOBE CANYON KENWOOD CA 95452 823 2000 FULL	LOWELL LUX K6SRD 4567 BRIGHTON DR SANTA ROSA CA 95401 546 7099 FULL	BILL MEYER K6TCD 6516 MEADOW GREEN SANTA ROSA CA 95405 539 1489 FULL
#69:	HANS BERG CALL: DJ6TJ ADDR: MENGSTRASSE 37 2400 LUEBECK W. GERMANY PHONE: CLASS: FULL	WARREN REESE WB6TMY PO BOX 4694 SANTA ROSA CA 95402 527 8124 FULL	KATHI BOYETT WA6UAZ 1326 DOGWOOD DRIVE SANTA ROSA CA 95401 544 7943 FAMILY	JIM BOYETT WB6UBA 1326 DOGWOOD DRIVE SANTA ROSA CA 95401 544 7943 FAMILY
#73:	BUD LOCKWOOD CALL: WA6UCP ADDR: 910 JACK LONDON DR APT: SANTA ROSA CA 95405 PHONE: 539 1579 CLASS: FULL	BRIAN KOTZIAN KE6WL 2601 MCBRIDE 4 SANTA ROSA CA 95401 528 3004 FULL	CLIFF BARTLETT KD6XF 35 MISSION DR PETALUMA CA 94952 FULL	ROBERT CRAIG K6XZ 5519 EL ENCANTO SANTA ROSA CA 95405 539 1007 FULL
#77:	RICK JOY CALL: WB6YUB ADDR: 1205 ERIC COURT RHONERT PARK CA 94928 PHONE: 585 8340 CLASS: FULL			

12 VOLT POWER SUPPLY: de N1AL

Here's a schematic for that 12 V emergency power supply. T1 should be 24 to 30 V center-tapped rated at 1A or more. C1 is at least 10,000 uF 25 Volts or more. D1 and D2 are 1N400x series (1N4004, 1N4005, etc.). The fuse should be 1/2 A. With a decent heat sink, the 7812 should put out over 1A. This is enough for an HT or low power rig like a TR-22.



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FIRST CLASS