

AMATEUR RADIO FLEA MARKET

and Auction

Saturday, Sept 19 8 AM - 2 PM

Sebastopol Community Center

390 Morris St., Sebastopol

Indoor Flea Market tables: \$7 at door, \$5 in advance
Vendor set-up 7 AM. **TALK-IN on 146.73**

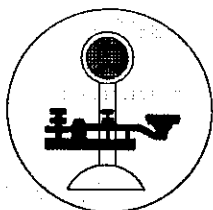
Radio Clinic, Refreshments, Door Prizes ...

F.C.C. EXAMS

FREE ADMISSION & DOOR PRIZES!

From SANTA ROSA take Hwy 12 west 10 miles. Look for sign on right at city limits.

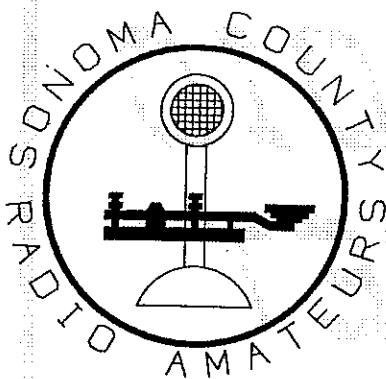
For table registration tickets and information write:



Sonoma County Radio Amateurs, Inc.

P.O. Box 116
Santa Rosa, CA 95402





-----OFFICERS FOR 1987:-----

PRESIDENT:	Connie Freitas	N6FYV	544-1609
VICE PRESIDENT:	Russ O'Neill	N6KMJ	778-1758
SECRETARY:	Marie Mappus	KI6QY	664-1978
TREASURER:	Alan Bloom	N1AL	538-7115
MEMBERS-AT-LARGE:	Don Osborne	WA6ACX	829-0565
	Brian Torr	N6IIY	887-1388
REPEATER CHAIR:	Hoppy Bravin	WD6CKP	542-6750
ACTIVITIES CHAIR:	Lyle Meek	WW6F	523-1066

-----SHORT SKIP STAFF:-----

EDITOR:	Alan Bloom	N1AL (e) 538-7115
1578 Los Alamos Rd, Santa Rosa, CA	95405 (d) 577-3981	
CIRCULATION MGR:	Tracy Reese	WB6TMY
SWAP SHOP:	Hank Davis	W6DTV 823-7885

RACES LIAS: Bob Olsten WD6DPE 546-5593
 ARRL LIAS: Alan Bloom N1AL 538-7115
 ASST. DIR: Chuck Sabin N6DDK 795-2371
 HISTORIAN: Carolyn O'Neill N6KLR 778-1758
 BADGES : Hank Davis W6DTV 823-7885

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

PUBLIC SVC: Rudy Mappus N6KLU 664-1978
 PROGRAM CHAIRMAN: Phil N6OOA 838-2912
 REFRESHMENTS AT MEETINGS: Bob WD6DPE
 GREETER AT MTGS: Sarah Davis N6FAX
 RAFFLE: Rich KA6SSL Ken N6MHG Barry N6MHH
 QSL MANAGER: Doug Bender WW6D
 VEC EXAMS: Hank W6DTV 823-7885, WA6ACX
 N1AL K6ANP AG6C WD6CKP WN6D WW6D WW6F
 WB6FRZ KF6FX WA8LLY W6RIA WB6UDR WU6W
 EDUCATN: Don WA6ACX, Doug WW6D, John W6TLK
 Steve WA8LLY, Joel WB6PDP, Larry KF6WV
 AWARDS CHAIRMAN: Steve Lund WA8LLY
 MBR-OF-YEAR CHAIR: Rudy Mappus N6KLU
 FLEA MARKET CHAIR: Alan Bloom N1AL

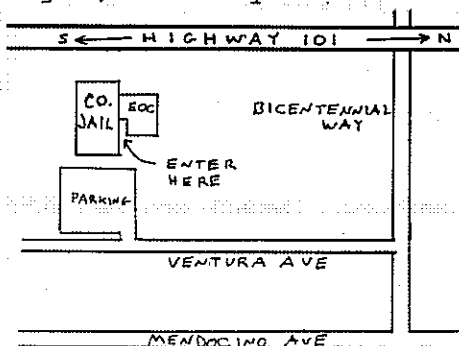
-----REPEATER CONTROL OPERATORS-----

WD6CKP 542-6750	W6DTV 823-7885
WB6PER 526-2972	N6KMJ 778-1758
WN6D 544-7943	WB6UAZ 544-7943

-----CLUB MEETINGS-----

7/7:30 PM first Wed each month at the
 Emergency Operations Center (EOC).
 NEXT CLUB MEETING: Sept. 2, 1987
 PROGRAM: Talk by KE3Z from ARRL HQ
 on Packet Radio

Meetings open to all, member or not.
 Dues are \$12/year, plus a one-time \$4
 initiation fee. (Includes callsign/
 name badge.) Family membership: \$18.

ARE YOU NOT AN SCRA MEMBER?

IF SO, then this is a complimentary copy. Our club is into almost every aspect of amateur radio: repeaters (13/73), Field Day, license classes (novice/upgrade), volunteer exams, RACES, DX programs, packet radio, hidden xmtr hunts -- you name it.

We invite you to attend our next monthly meeting (see below) or check into the SCARS net on the 146.13/73 repeater every Tues. night at 7 PM. You will hear the latest Westlink Amateur Radio news broadcast, SCRA announcements, and a Swap Shop. If you would like to join SCRA, please refer to the dues listed below. 73!

SHORT SKIP ADVERTISING RATES:

Business cards: \$10

\$14 First 1/4 Column
 \$2 Additional 1/4 Columns
 (\$28 Full Page, 1 side)

Pre-printed inserts: \$28/sheet

Guaranteed circulation: 200/month
 AD DEADLINE: 15th of previous month

RADIO SHACK

Store Nr. 3855

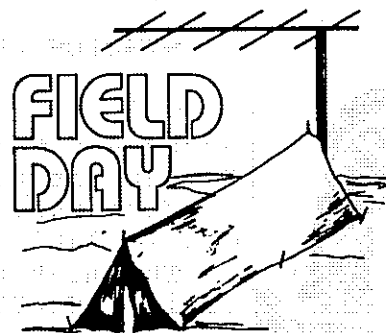
Zane Bates, Manager

510 Farmers Lane Telephone
 Santa Rosa, CA 95405 546-8423

PACKET COMMITTEE: Al N1AL Jim WN6D
 Terry WA6RNF Rich KA6SSL

*** NOTICE NOTICE NOTICE ***

The meeting place has been changed back to the EOC for the foreseeable future. The Rotunda Room at the Public Health Building is being converted into office space. See page 2 for map.



WHY WE GOT BEAT AT FIELD DAY

Courtesy of the Redwood Empire DX Association's July newsletter, here's what they did to win:

They used four transmitters: 160/80/15 meters, 20 M SSB/CW, 40/10 M, and 2 M (packet, FM, etc.). They used three push-up masts and a push-up tower topped with 3 monoband beams for the higher HF bands. The FD team met on Burdell peak on Friday to set up the towers, and again on Saturday to operate. This way, they could start operations with a fresh crew.

Their score would have been in the top 10 in the country for the 4A category, based on last year's results.

	CW			PHONE		
	SCRA	REDX		SCRA	REDX	
160	0	11	(-11)	0	19	(-19)
80	173	98	(+75)	140	78	(+62)
40	159	269	(-110)	57	172	(-115)
20	260	499	(-239)	168	294	(-126)
15	75	240	(-165)	0	277	(-277)
10	0	0	(0)	10	382	(-372)
2	0	0	(0)	6	109	(-103)
OSCAR	23	0	(+23)	41	0	(+41)
Packet				0	27	(-27)
TOTAL:	690	1117	(-427)	422	1358	(-936)

The only bright spots were 80 M and the Oscar satellite station. We lost the most points on 20, 15 and 10 meters. Next year we need some big masts and beams and enough good operators so we can put in the whole 24 hours on each band.

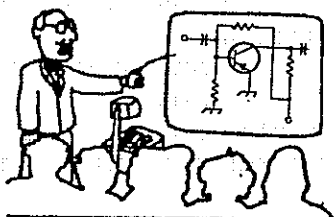
We made a big mistake in not putting in a 10 meter effort. With the Novices on phone now, there's lots of Q's to be made if the band opens up at all.

Wait 'till next year!!

- N1AL

UPGRADE/NOVICE

CLASSES:



Now that school is back in session, it is time to think about Novice/Upgrade classes. Joel graduated 10 from our list of 30 prospective Novices. Since that, about a dozen more have been added to the list. Joel has been teaching the Novice class the last two years, and it is now time for others to take his place. Joel, George (KS6W) and Steve (WA8LLY) can offer methods to teach the code. The ARRL license manuals are the best sources for the theory and regulations. The important ingredients are a willingness to help prospective hams and giving up a few hours per week of operating time to prepare and teach the class. With close to 200 members in SCRA, there must be more than 2 who can teach classes.

If there is enough interest (10 hams), I'll teach another Advanced class. It will be on Tuesday (preferred) or Thursday night. If you're interested, let me know at the September meeting or give me a call at 823-4544. If the Advanced class goes, I'll teach the Extra starting next January.

-- de Steve WA8LLY

PHONE: (707) 792-2277

H.S.C.
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of Santa Rosa

DIVISION OF HALTED SPECIALTIES, INC.

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6819 S. SANTA ROSA AVENUE
COTATI, CA 94928

GEORGE SHEDORE
MANAGER

MINUTES OF THE GENERAL MEETING OF SCRA, AUGUST 15, 1987



Officers present: President: Connie Freitas N6FYV, Secretary Marie Mappus KI6QY, Treasurer: Al Bloom N1AL, Members at Large: Don Osborne WA6ACX, Brian Torr N6IIY. Visitors: Ann Hart, Elaine Olsten, Dru Pelmulder, Connie Sabin.

The meeting was called to order by the President, Connie Freitas N6FYV, at 1:25 PM. The meeting was held in conjunction with the SCRA annual picnic.

Bob WD6DPE made a motion to approve the minutes as they appeared in Short Skip, and Chuck N6DDK seconded the motion.

Don WA6ACX made a motion to approve the Treasurer's Report as printed in Short Skip, and Phil N6OOA seconded the motion.

Many thanks to Steve WA8LLY for hosting the annual club picnic at his home. The outing was a big success and thoroughly enjoyed by all who attended.

There was a Rabbit Hunt prior to the beginning of the picnic. Don WA6AXC was the "Rabbit" and gave the hunters a merry chase. Finally, after many clues were given to assist the hunters, Jim N6PTM located the "Rabbit". Hank W6DTV came in second and Chuck N6DDK was third. Jim N6PTM will be the "Rabbit" at the next Rabbit hunt.

OLD BUSINESS: The Swap Meet will be held on September 19, 1987 at the Sebastopol Community Center. Al N1AL passed a list for people to volunteer to help at the Swap Meet.

Connie N6FYV announced that the EOC will continue to be used as the location for the SCRA general meetings. The Rotunda Room at Community Hospital is being converted into offices for the hospital.

Thanks to Bill W2HWQ for his contribution of food items for the needy's christmas donations. Other members who have donated to this cause are Phil N6OOA, Bob KB6EOC, Don WA6ACX and Irma KF6FX. Everyone was encouraged to bring a gift of a food item to the September general meeting.

Hank W6DTV reminded those present that there would be VE testing on the day of the Swap Meet. The exams will be held at the Sebastopol Fire House at 1:00 PM.

Larry KF6WV has offered to donate a 6 meter repeater, antenna and duplexers to the club. We regretfully declined Larry's most generous offer as there does not seem to be enough interest in the club in this type of equipment.

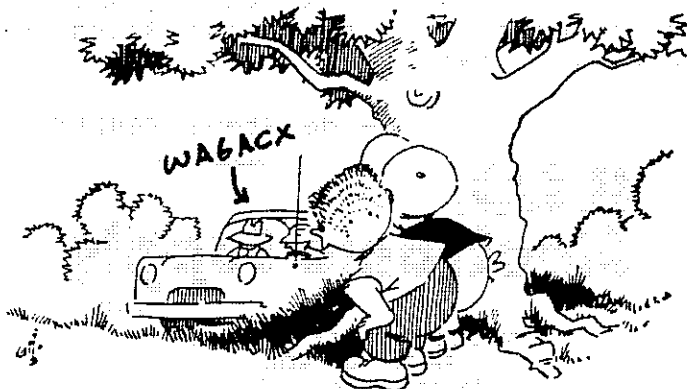
Al N1AL stated that the packet station is now in its cabinet and will be tested shortly.

Phil N6OOA announced that the guest speaker for September will be Al N1AL's brother Jon [Ed note: KE3Z, ARRL HQ lab supervisor], who will speak about packet radio.

Steve WA8LLY said he planned to order the new ARRL Callbooks shortly, and all interested parties should contact him and place their orders. He also can get slip cases for QST, Ham Radio, etc. for about \$7 per case.

Bob WD6DPE made a motion to adjourn the meeting and Chuck N6DDK seconded it. The meeting was adjourned at 1:52 PM.

Respectfully submitted by Marie Mappus KI6QY, Secretary.



1988 US/DX CALLBOOKS

I'll be placing my annual order for the Radio Amateur Callbooks. I don't have a firm price yet. My best estimate is \$19 for a single book or \$36 for a pair. The usual rules apply: delivery is to my QTH and expected arrival is a few days before Christmas. If you're interested, see me at the September meeting or give me a call (823-4544)

HAM MAGAZINE FILE CASES

Do you get tired of tripping over all those loose ham magazines? Are those QST binders too rich for you at \$11 plus postage? I've been using vinyl file cases manufactured by Jesse Jones Box Corp for the last two years. You can get them for less than \$8 with the magazine title stamped on the back. I'll try to remember to bring a sample to the September club meeting. Anyone want to buy some used 8 1/2 by 11 QST and Ham Radio binders?

-- de Steve Lund, WA8LLY



TREASURER'S REPORT FOR MONTH ENDING JULY 31, 1987

ACCOUNT	REVENUE	EXPENSE
Activities (FD/picnic)		169.60
Refreshments	13.45	10.56
Dues & Initiations	36.00	3.00
Fund-Raiser	30.00	25.00
Raffle	27.00	
Badges		3.98
Miscellaneous		4.75
Repeater Fund		28.45
Training/Education	108.88	66.26
Westlink		33.19
Newsletter	142.63	118.85
Member supplies	137.50	172.60
	495.46	636.24
ASSETS:		
General Fund Account		1170.88
Cash/checks on hand		226.51
Total General Fund		1397.39
Total Repeater Fund		2032.20

-- de N1AL

ARRL NATIONAL CONVENTION

HOTEL REGISTRATION: - ASK FOR SPECIAL "PACIFICON '87" RATE
LE BARON HOTEL, 1350 N. FIRST ST., SAN JOSE, CA 95112
PER NIGHT (SINGLE OR DOUBLE OCCUPANCY): \$48.00 PLUS 8% TAX
SPECIAL RATE GOOD THURSDAY, FRIDAY, SATURDAY, AND SUNDAY NIGHTS
CALL HOTEL DIRECTLY - (800) 662-9896 (FREE) OR (408) 288-9200
FOR CONVENTION INFORMATION - CALL (408) 243-8349

PACIFICON '87" PRE-REGISTRATION ORDER FORM OCTOBER 2, 3, 4, 1987
MAIL THIS FORM TO: "PACIFICON '87", 481 FENLEY AVE., SAN JOSE, CA 95117
ALL TICKETS WILL BE AT REGISTRATION IN YOUR NAME -- NO REFUNDS AFTER 9/29
NO-SHOWS WILL PARTICIPATE IN ALL MAJOR AWARD DRAWINGS

NAME: _____ CALL _____

ADDR: _____

CITY: _____ STATE _____ ZIP _____

OTHER CALL(S)/NAME(S) _____

EA PRE-REGISTRATIONS (\$12.00 EACH).....\$.....00

PRE-REG AWARD CHANCES: 3 UNTIL AUG 1; 2 UNTIL SEP 1; 1 UNTIL SEP 27

POSTMARKED AFTER 9/27 AND AT DOOR \$15.00 EACH

EA 18 YEARS OR UNDER (NO AWARD CHANCES).....FREE

CALL(S)/NAME(S) _____

EA BANQUET TICKETS \$20.00 EACH (ATTENDANCE LIMIT 250).....\$.....00

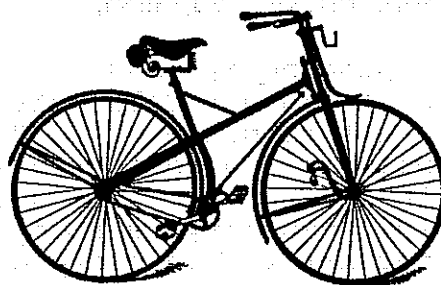
EA STANFORD LINEAR ACCELERATOR TOUR BUS FARE \$8.00 EACH...\$.....00

(BUS TRIP WILL BE CANCELLED WITH REFUND IF SIGNUP LESS THAN 30)

PHONE: (_____) _____ TOTAL ENCLOSED:..\$.....00

HEALDSBURG BIKE-A-THON

On August 8, 1987, the SCRA volunteer group assisted with a 100 kilometer (62.2 mile) bike-a-thon sponsored by the Healdsburg Chamber of Commerce. 740 bicyclists participated in the event. It began at 6:30 AM and ended around 3:00 PM.



The bike-a-thon started at the Healdsburg Boys and Girls Club and proceeded North into the Alexander Valley and up to Asti where there was a rest stop at the Colony Winery. From Asti, the bikers headed South on Dutcher Creek Road to Dry Creek Valley where they traveled down West Dry Creek Road to the Westside junction. From there they continued South to Hop Kiln Winery where beautiful picnic grounds awaited those who chose to enjoy them. The final leg of the journey took riders over the Waller Bridge to Eastside Road, North to Windsor, and back to Healdsburg.

The following is quoted from a local paper concerning this event:

"Healdsburg Chamber of Commerce Director, Lynn Woznicki said, 'We have sag wagons to relieve or help anyone who has problems on the road. We also have the Radio Amateurs on hand for communications, and Captain John McLarty of the CHP has been notified of the activity on the road.'

Rudy Mappus and Al Schmidt, members of the Sonoma County Radio Amateurs, Inc., were at the HBGC Saturday morning monitoring the activity on the road and giving Woznicki updates periodically on the bikers' progress. All together, 12 radio amateurs were on hand for the event.

It was fortunate that the radio communicators were on hand as one of the Ladd brothers from Windsor had an accident on the road. At last report, he had a possible broken collarbone. The accident occurred in Windsor where he lived, so he was able to quickly get to the hospital.

The Radio folks voluntarily participate in all kinds of local events which utilize the valuable service of communication they provide. Using their hand-held or mobile units, the radio amateurs can call in a Sheriff helicopter or other emergency equipment if needed. Other types of events they cover include parades, walk-a-thons, marathons and were very valuable during the floods of 1986."

Many thanks to Al KD6NT, Hank W6DTV, Sarah N6FAX, Bob WB6EKV (double duty), Ken N6GXI, Georgia N6GZU, Phil N6OOA, Chuck N6DDK, Hoppy WD6CKP, and Marie KI6QY for a job well done.

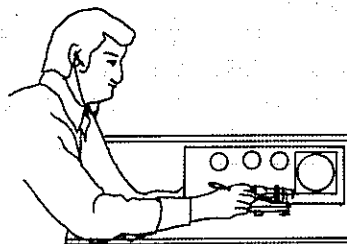
Our next event is on August 30 in Bodega Bay. We have all the volunteers we need for this event. The next activity will be the American Diabetes Run on October 4. Join us. Call me at 664-1978.

-- Rudy N6KLU

NEW CALLS AROUND THE COUNTY

Was... Is...

KB6SKU N6PXY Robert Bowman



**NEWS of Amateur Radio**

BROADCAST ENGINEERS FILE IN FAVOR of the Amateur position against giving a portion of the 220 band to the Land Mobile Service. The Society of Broadcast Engineers filed a strongly worded comment questioning the FCC's assertion of "underutilization" of the band by Amateurs. (Westlink)

ARRL COMMENTS IN CALL SIGN INQUIRY

The League believes that assignment of callsigns is best done by FCC, but if not, then ARRL would do so under the following conditions: That only a single national entity administer the program, cost would be \$25 and \$10 to renew, & liability to ARRL be limited to refund of fee. A special one-time mailing by FCC should inform all licensees of the existence of the program. (ARRL)

ARRL NIXES VISITORS' CENTER. The multi-million dollar museum and visitors center to have been located in Newinton has been "placed in abeyance" by the Board of Directors. The refurbishing of WLAW will go ahead on schedule, however. (ARRL)

Thanks to Westlink Report and the ARRL Letter for the above info.

EVENTS CALENDAR:

Don't forget SCARS nets on Tuesdays.

SEPTEMBER:

- 7 - RACES etc. Net 7:30 PM
- 2 - SCRA meeting 7/7:30 PM
- 12 - Foothill College Flea Market
- 12-14 - ARRL VHF QSO Party
- 21 - RACES etc. Net 7:30 PM
- 17 - CDF VIP Meeting 7:30 PM
- 19 - ***** SCRA Flea Market *****
- 19-20 - Luebeck City-Festival

OCTOBER:

- 2-4 - ARRL Div. Convention, S. Jose
- 3-4 - California QSO Party
- 17-18 - Simulated Emergency Test

NOVEMBER:

- 7-9 - ARRL Sweepstakes, CW
- 21-23 - ARRL Sweepstakes, Phone

DECEMBER:

- 5 - SCRA Christmas Party

E X A M S

P=PRE-REGISTER
PP=PRE-REGISTER PERFERABLE
W=WALK-INS ONLY
SM=SOME WALK-INS

SEPTEMBER

- 5 LOS ALTOS HILLS---W-408-255-9000
- 5 RIVERSIDE-----P-714-780-2680
- 5 VISALIA-----209-627-5346
- 5 VAN NUYS-----818-988-7165
- 5 HUNTINGTON BEACH-SW-213-691-1514
- 5 EAGLE ROCK-----818-710-1705
- 5 BURBANK-----W-818-848-9340
- 5 EUREKA-----707-822-4541
- 6 CHICO-----P-916-342-1180
- 12 LOS ALTOS HILLS---W-408-255-9000
- 12 VICTORVILLE-----W-619-244-6080
- 12 VANDENBERG AFB-----805-937-4220
- 12 SANTA BARBARA-----805-964-7432
- 12 NOVATO-----W-707-897-8950
- 12 SACRAMENTO-----P-916-483-3293
- 13 LOMA LINDA-----714-824-1133
- 13 CAMPBELL-----W-408-243-8349
- 13 CHICO-----P-916-342-1180
- 15 EL TORO-----714-951-0336
- 16 EUREKA-----W-707-442-6631
- 17 FOUNTAIN VALLEY----714-775-6095
- 19 MERCED-----P-209-722-7183
- 19 SEABASTOPOOL-----P-707-823-7885
- 19 SANTA MONICA-----213-475-0383
- 19 RCHO PALOS VERDES---213-644-2271
- 24 LONG BEACH-----213-434-8278
- 26 HAWTHORNE-----PP-213-316-2758
- 27 SANTA CRUZ-----W-408-425-4703
- 28 MONTECLAIR-----714-875-6472

OCTOBER

- 3-4 ARRL CONVEN.S.J.--W-408-243-8349
- 4 PLEASANT HILL-----W-415-932-0491
- 4 CHICO-----P-916-342-1180
- 10 LOS ALTOS HILLS---W-408-255-9000
- 10 CAMARILLO-----P-805-425-4703
- 11 FRESNO-----W-209-896-4505
- 17 MONTEREY-----W-408-624-2564
- 21 EUREKA-----W-707-442-6631

Tnx to: Sunnyvale VEC ARC, POB 60142
Sunnyvale, CA 94088 via N6IIU-1 BBS.

SCRA TUESDAY NIGHT NET -- CALLUP PROCEDURE

(Clip & save so you can be Net Control Station, if NCS doesn't show)

[CAPITAL LETTERS = Material to be spoken by NCS over the repeater.]

[small letters = Instructions to you, the NCS.]

CALLING ALL RADIO AMATEURS. THIS IS (your call here), NET CONTROL STATION FOR THE SONOMA COUNTY AMATEUR RADIO SERVICE NET. THIS NET IS SPONSORED BY THE SONOMA COUNTY RADIO AMATEURS, INC. AND MEETS ON THIS FREQUENCY EVERY TUESDAY AT 7 PM.

THIS REPEATER WAS INSTALLED AT THE COUNTY SITE ON SONOMA MOUNTAIN PRIMARILY FOR EMERGENCY COMMUNICATIONS IN TIME OF DISASTER. EMERGENCY TRAFFIC ALWAYS HAS PRIORITY OVER ALL OTHER COMMUNICATIONS. AN EMERGENCY SHOULD BE ANNOUNCED BY EITHER A DOUBLE BREAK OR BY THE WORDS, "BREAK EMERGENCY". ANY QSO IN PROGRESS WILL CEASE IMMEDIATELY, AND ALL STATIONS WILL REMAIN SILENT UNTIL THE EMERGENCY IS OVER, UNLESS THEY CAN HELP. IT IS IMPORTANT TO REMEMBER THAT DURING NET OPERATIONS, THE EMERGENCY AUTODIALER IS DISABLED. ANY STATION HAVING EMERGENCY TRAFFIC DURING THE NET SHOULD CONTACT NET CONTROL.

SCRA MEMBERSHIP IS OPEN TO ANY INTERESTED PERSON IN THE SONOMA COUNTY AREA. FOR FURTHER INFORMATION, CONTACT ANY MEMBER STATION OR WRITE TO: (pause) SCRA, P.O. BOX 116, SANTA ROSA, CA 95402. THE CLUB MEETING IS THE FIRST WEDNESDAY OF EACH MONTH AT 7:30 PM AT THE [PUBLIC HEALTH BUILDING ROTUNDA ROOM NEAR COMMUNITY HOSPITAL, SANTA ROSA.] (or check with President for location.)

THE PURPOSE OF THIS NET IS TO PROVIDE INFORMATION OF INTEREST TO ALL RADIO AMATEURS.

DO WE HAVE ANY ANNOUNCEMENTS FROM THE PRESIDENT? (President name and call)

DO ANY OTHER OFFICERS OF THE CLUB HAVE ANY ANNOUNCEMENTS FOR THE NET?

HANK W6DTV, DO YOU HAVE ANY SWAP, SELL OR WANTS FOR THE NET?

DOES ANYONE ELSE HAVE ANY ANNOUNCEMENTS OR COMMUNICATIONS FOR THE NET?

HOPPY WD6CKP, DO WE HAVE A WESTLINK BROADCAST TONIGHT?

THERE WILL BE A 10 METER NET FOLLOWING THIS NET ON 28.400 MHz UPPER SIDE BAND.

THANK YOU FOR LISTENING TO THIS SESSION OF THE SCRA NET. THIS SESSION IS NOW CLOSED. THIS IS (your call here), NET CONTROL.

>> (End) <<

NOTES:

1. Remember to ID at least every 10 minutes.
2. The roll call will only be used when a vote or survey is to be taken.
3. If you get a question about DUES: \$12 per year INITIATION FEE: \$4 (initiation fee only for those who have never been a member of SCARS or SCRA). New members receive a call-letter name badge.

H.S.C. ELECTRONIC SUPPLY

6819 SO. REDWOOD DR.

COTATI, CA. 94928

BUSINESS HOURS MON. THRU FRI. 9AM TO 7PM
SAT. 9AM TO 5PM
PHONE 792-2277 OR 792-2357 (BBS)
BBS IS ON LINE WHEN STORE IS CLOSED



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WE STOCK**

ALINCO-REGENCY-BEARCAT-MFJ-KLM-
LARSEN-GORDON WEST-VAN GORDON-
MIRAGE-ARRL-QST-WORLD-RADIO-CQ-73-
COMPUTERS-DISKETTES-PRINTERS-DOS-
CABLES-COAX-RESISTORS-IC'S-WELLER-

PLUS MUCH MUCH MORE SO STOP BY
AN TAKE A LOOK AROUND THE COFFEE
IS ALWAYS ON AND FREE.

ALINCO

ALR-22HT 45W UHF \$429.95
ALR-22T 25W UHF 339.95
ALR-206T 25W UHF 358.95
ALM-203T 25W UHF HT 328.95
ALR-72T 25W UHF 469.95
ALD-24T 25W UHF/UHF 579.95

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PR-3 3AMP POWER SUPPLY \$26.00
PR-3/5 3/5AMP POWER SUPPLY 38.00
PR-7 7AMP POWER SUPPLY 48.50

ALSO
POWER INVERTERS-BATTERY BACKUPS
SURGE PROTECTORS

SEE US

**AT
THE
S.C.R.A.
SWAP
MEET**

SEPT. 19, 1987

SEE YA !!



LOW LOW PRICES ON OUR
- COMPUTER -
- PRINTERS -
- MONITERS -

TURBO AT SYSTEM 6/10 MHZ	\$1175.00
TURBO XT SYSTEM 4.77/8 MHZ	549.00
CASPER EGA MONITOR	439.95
CASPER CGA MONITOR	309.95
MONOCHROME MONITOR	89.95
ENHANCED GRAPHICS CARD	209.95
COLOR GRAPHIC CARD	59.95
MONOGRAPHIC CARD W/P/SIO	79.95
MONOGRAPHIC CARD W/P	59.95
AT STYLE KEYBOARD KB-5160	59.95
XT STYLE KEYBOARD KB-5150	59.95
ENHANCED STYLE	89.95
AT I/O CARD	64.95
XT SERIAL I/O CARD	29.95
XT STYLE FLIP CASE	34.95
XT STYLE SLIDE CASE	39.95
XT TYPE 150 POWER SUPPLY	64.95
XT STYLE MOTHER BOARD	109.95
XT TURBO MOTHER BOARD	154.95
MULTI I/O FLOPPY CARD	89.95
XT TURBO SPEED UP KIT	39.95

TEKTRONIX

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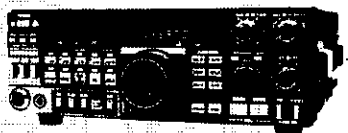
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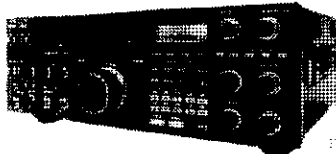
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SOME ANTENNA QUESTIONS - or - WHY DON'T MY ANTENNAS WORK?

1. "A low VSWR across the band means the antenna is working well." (Yes/No)
No - all it means is that the VSWR is low across the band. If the VSWR is extremely flat, it probably means the system has large losses in the antenna (traps, etc.) or feedline. The best example is a dummy load - it is flat across the band, but does not radiate very well!
2. "A high VSWR means that the antenna is not working well." (Yes/No)
No - it means the antenna is not properly matched to the feed line. Poor matching causes feedline loss, which may or may not be a problem, depending on line type (open-wire is the best).
3. "A single driven element in a Yagi-type antenna is as good as a dual-driven system." (Yes/No)
Yes - depending upon the meaning of the term "good." A single element can excite the antenna just as well as a dual. The only difference is that the multiple-driven element can maintain a flatter VSWR across the band. This is usually not a problem, however.
4. "The length of the driven element in a Yagi-type antenna is critical for antenna performance (gain and front-to-back ratio)." (Yes/No)
No - the driver's only job is to put power into the array. The length (within reason) only affects the type of matching system used.
5. "Driven or parasitic arrays that are close-spaced are easy to match and tune." (Yes/No)
No - definitely not! The mutual interactions between the elements are tremendous. Increasing element spacing makes the antenna easier to tune because the "mutuals" are much less significant.
6. "The gain of a Yagi-type antenna primarily depends on the number of elements." (Yes/No)
No - it depends on boom length. The number of elements is almost not related to gain at all, provided that the element spacing does not exceed about 1/4 wavelength. An optimum 6-element or 4-el Yagi built on the same 52.5 ft boom have within .1 dB of the same gain.
7. "Having an 80 meter dipole at least 10 feet from other antennas will ensure minimum interaction." (Yes/No)
No - since antennas can couple effectively out to about 1/4 wavelength (67 ft), 10 feet is not much. The best rule of thumb is to make a VSWR plot of each antenna and then compare after the new antenna is installed. If the plot changes much, you have a coupling problem.
8. "In free space and using the latest antenna analysis programs, how much forward gain does the well-designed Hy-Gain 204BA (4 el, 26' boom) antenna have?" (in dB)
8.35 to 8.52 dBi. Referenced to a dipole, this is 6.19 to 6.36 dB.
9. "If I can't put up one of those huge antennas, can I still be competitive and have fun in pile-ups and contests?" (Yes/No)
Yes - just don't expect to always be first in the pile-ups or final scores. There will be times when you will walk right through a big antenna; consequently, sharpen up your operating skills and have it happen more often!

(Adapted from International DX Convention handout)

SCRA



FLEA MARKET

> > SATURDAY SEPTEMBER 19 < <

The 5th annual SCRA Flea Market is coming up soon! We will probably sell out of indoor tables early, so if you have gear to sell, arrive early (7AM). You can reserve an indoor table by using the form on the other side of the page.

DOORS OPEN TO BUYERS AT 8:00 AM.

FCC EXAMS start at 1PM at the Fire Station at 7425 Bodega Ave, Sebastopol, CA. (Maps available at Flea Market registration desk.) All Classes Technician thru Extra will be offered. (Novice will be given only to unlicensed persons applying for Technician or higher.)

PRE-REGISTRATION is a must. Send your filled-out 610 form and a photocopy of your license (if any) to the address below. On test day, bring a check for \$4.35 made out to ARRL/VEC and positive ID (such as photo-type driver's license.)

EXAM
CONTACT
PERSON:

Hank Davis W6DTV
7822 Washington Ave
Sebastopol, CA 95472
707-823-7885

ALTERNATE:

Steve Lund WA8LLY
707-823-4544
(call after
7:30 PM)

TABLE RESERVATION FORM

Name: _____ Call: _____

Addr: _____

City: _____ Zip: _____

Phone number: _____

Number of tables to reserve: _____

Cost per table: \$5.00

\$ Enclosed: _____

Desired location: Inside ☐Outside ☐Send to: SCRA
Box 116
Santa Rosa, CA 95402

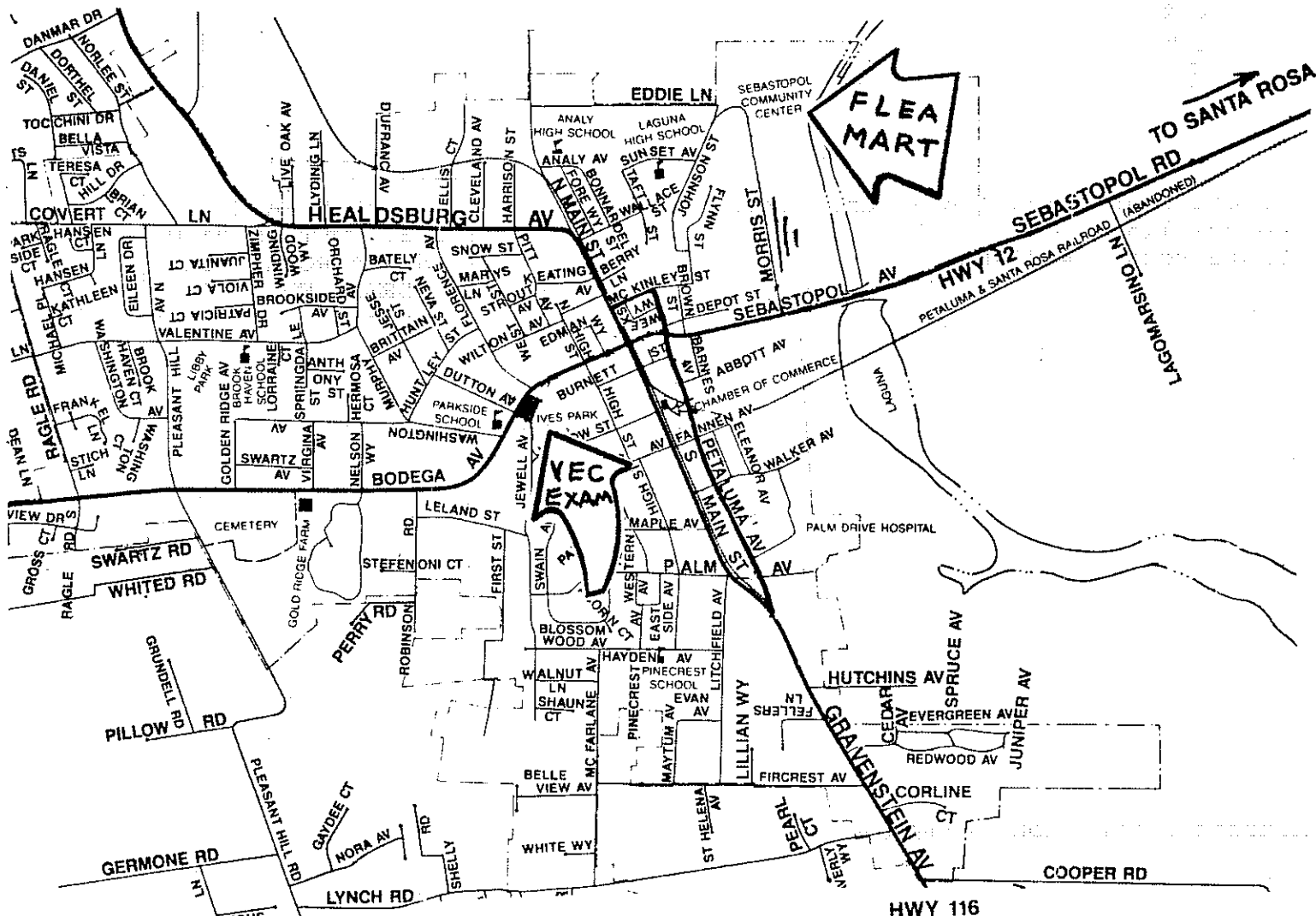
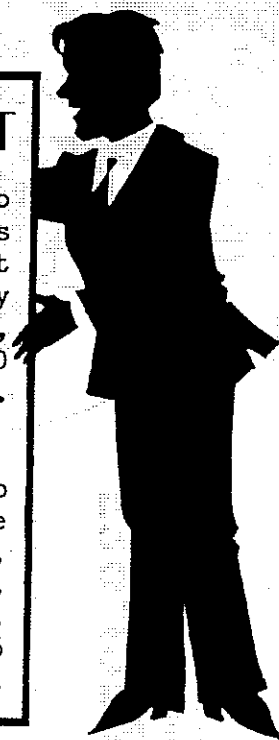
FLEA MART

Our 5th annual Ham Radio Flea Market & Auction is SATURDAY SEPTEMBER 19 at the Sebastopol Community Center. From Santa Rosa, take Hwy12 West about 10 mi, & look for the sign. Talk-in on 146.13/73.

FREE ADMISSION !

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To reserve your table, send \$5 to SCRA, Box 116 Santa Rosa, CA 95402.



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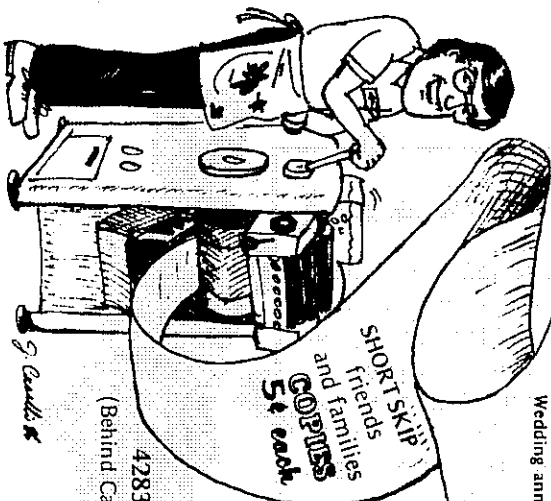
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