

# SHORT SKIP

*Sonoma County Radio Amateurs, Inc.*



**MARCH 1987**

Club Station

**W6LFJ**

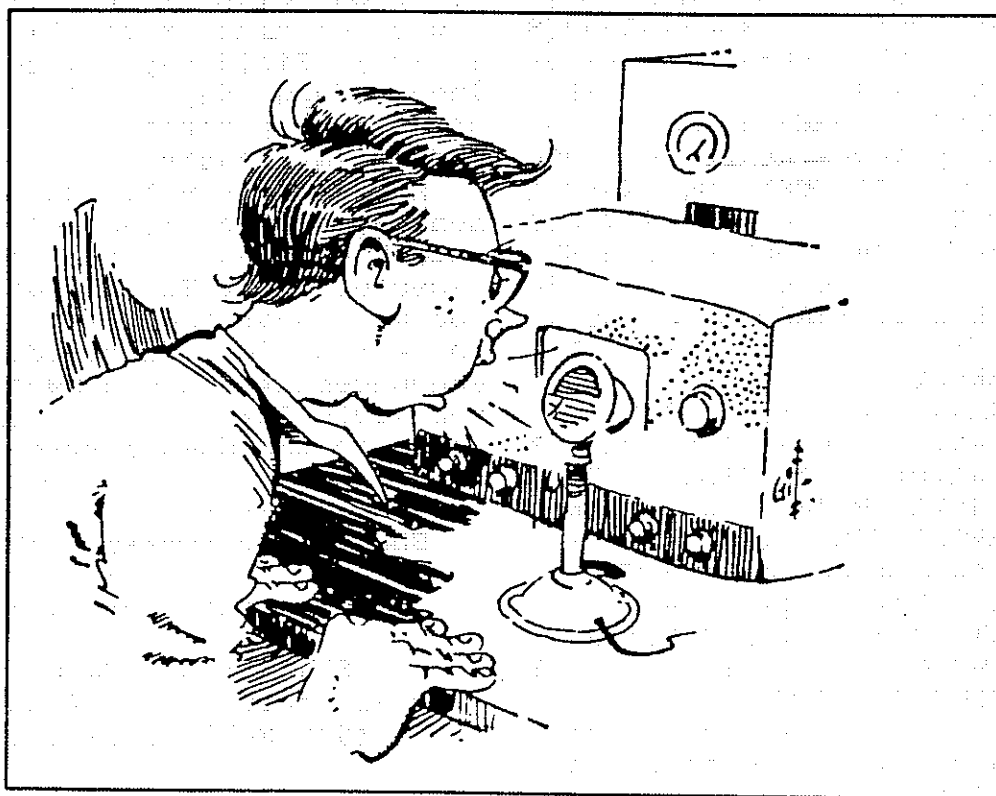
P.O. Box 116

Santa Rosa, CA 95402

Repeater Station

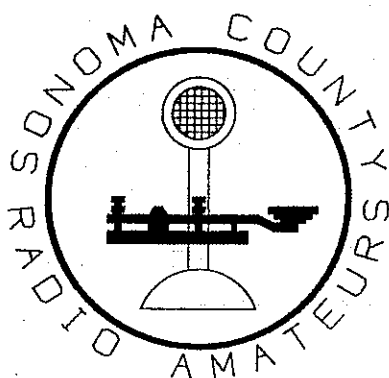
**WB6PVS**

**VOL 12 # 3**



**NOVICES ON PHONE!**

(SEE PAGE 10)



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

PRESIDENT:	Connie Freitas	N6FYV	823-0431
VICE PRESIDENT:	Russ O'Neill	N6KMJ	778-1758
SECRETARY:	Susan Schuyler	N6IRJ	526-2972
TREASURER:	Garry Palmer	N6ONZ	584-3425
MEMBERS-AT-LARGE:	Don Osborne	WA6ACX	829-0565
	Brian Torr	N6IIY	865-2234
REPEATER CHAIR:	Paul Hansen	AE6H	527-7955

## -----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: Warren WB6RHP, Bob WD6DPE  
 ARRL LIAS: Alan Bloom N1AL 538-7115  
 ASST. DIR: Chuck Sabin N6DDK 795-2371  
 PUB. RLTS: Hayes Hunter WB6KLU 795-5938  
 HISTORIAN: Carolyn O'Neill N6KLR 778-1758  
 BADGES : Hank Davis W6DTV 823-7885

## -----ACTIVITIES COMMITTEE-----

PUBLIC SVC: Rudy Mappus N6KLU 664-1978  
 REFRESHMENTS AT MEETINGS: Bob WD6DPE  
 GREETER AT MTGS: Marie Mappus N6KUS  
 RAFFLE: Rich KA6SSL Ken N6MHG Barry N6MH  
 QSL MANAGER: Doug Bender WW6D  
 VOL EXAMS: WN6D WW6D K6ANP AG6C WD6CKP  
 WA6ACX W6DTV WW6F KF6FX WB6FRZ WA8LLY  
 EDUCATION: WA8LLY  
 PROGRAM CHAIRMAN: Phil N6OOA 838-2912  
 AWARDS CHAIRMAN: Steve Lund WA8LLY  
 FLEA MARKET CHAIR: Al Bloom N1AL  
 MBR-OF-YEAR CHAIR: Rudy Mappus N6KLU

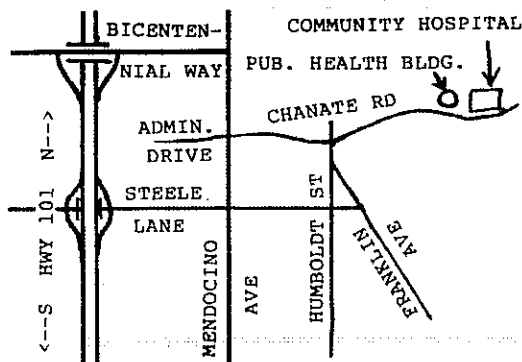
## -----REPEATER COMMITTEE-----

Alan Bloom N1AL-Jim Rutherford WB6PER  
 Jim Boyett WN6D-Phil Copenhaver N6KZS  
 Brian Kotzian KE6WL-Terry Laduke WA6RNF  
 Hoppy Bravin WD6CKP (Westlink b'cast)

## -----CLUB MEETINGS-----

7/7:30 PM 1st Wed each month at the  
 Public Health Bldg, 3313 Chanate Rd.  
 NEXT CLUB MEETING: March 4, 1987  
 PROGRAM: Weather FAX demo by KB6LO

Meetings open to all, member or not.  
 Full voting membership for licensed  
 Amateurs only. Dues: \$12.00 per year  
 plus a one-time \$4.00 initiation fee.  
 (Includes call-letter/name badge.)

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

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

## THE PRESIDENT'S CORNER



I hope everyone found the new meeting place favorable. Any comments are appreciated.

The Homebrew Contest will be coming up in April, so I'm sure there will be some interesting projects as usual.

The program for March will be presented by Don KB6LO on his weather FAX machine.

As a reminder..... As of March 1 dues are due and are delinquent as of the general meeting April 1.

You might want to check the expiration date on your license to make sure it doesn't expire this year. If you need a 610 form, please contact W6DTV.

Net control for March will be Rich KA6SSL. Others will be needed for April through December. Contact me if you could do the net for one month. There are two alternate net operators. They are Bob WD6DPE and Kermit KB6GBV. At any time, anyone who takes the net can call on Bob or Kermit to fill in.

There is a listing of other nets being held by other clubs or repeaters. Please check the calendar of events for dates and times.

Have a good month. 73's  
XX Connie N6FYV XX

## DEPENDABLE HAMS NEEDED

Volunteers (a few Novices for non-communications duties and a lot of Technicians and above for 2 meter communication) are urgently needed to use their skills and meet a club commitment to parades, walk-a-thons, etc. throughout 1987. Three events are already scheduled. Two on Sunday April 26, (March of Dimes Walk-a-thon and the Lions Club) and one on Saturday May 16, (Luther Burbank Rose Parade). There will be others. It's a lot of fun, and we want to get everybody involved. **HELP YOURSELF BY HELPING OTHERS.** Sign up now. Contact Rudy N6KLU at 664-1978.

## CLUB QSL CARDS?

When you start shopping for QSL cards, you quickly discover that it doesn't pay to order small quantities. You might pay \$60 for 500 nice-looking cards, but only \$75 for 1000.

What if the club had several thousand nice-looking cards printed up? On the front would be a full-color photo of a Sonoma County scene perhaps with the words: "Member Sonoma County Radio Amateurs, Inc.", and the back would have the standard QSO information. Each member could buy as many as needed, and customize them by adding his call to the front and call/name/address to the back.

I checked with the Letter Shop: 6500 pieces would run about \$400 (6.2 cents each), 12,500 pieces for \$540 (4.3 cents each). If you add your call with a magic marker, and stick an address label on the back, your cards would cost less than a nickel apiece (assuming the club buys the larger quantity).

If you want to have the call professionally printed, this would add another \$15 for 200 pieces, \$22 for 500, etc. Total cost for 500 cards would be around \$44, or less than 9 cents per QSL (assuming the club sells at cost).

The same card stock could be used for the club station QSL, W6LFJ. I would buy 1000 myself. Would anyone else be interested? Let me or a Board member know.

-- N1AL (see page 2 for phone #)



In last month's "President's Corner", be advised that Connie did NOT write: "Make sure that you move your mic out of the way when you get in the can."

Make that "car".

**MINUTES OF THE GENERAL MEETING OF SCRA, FEBRUARY 4, 1987**

The meeting was called to order at 7:32 by Russ N6KMJ.

VISITORS: Candy Vawter N6NSG, Dale Vawter N6MRV, Gary Harwell WA6ALL, Phil Gonzales KA6SMN, Lyle Meek WW6F, and Bess Ireman and Ed Green, both not hams.

Officers present were Russ N6KMJ, Susan N6IRJ, Garry N6ONZ, Don WA6ACX, Brian N6IYY. Connie N6FYV was absent due to an ear infection.

Upgrades: Joel Potts WB6PDP earned his Extra class license but will keep his old call.

PROGRAM: Al Bloom demonstrated the use of an 8568 Spectrum Analyzer from Hewlett Packard. This sleek silver piece of equipment runs for about \$35,000 and measures frequencies to 1.5 gigahertz. The spectrum analyzer measures power output, the frequency of the unmodulated signal, frequency deviation, and 1st, 2nd and 3rd harmonics. The 8568 has the capability of being attached to a computer to provide the input to the analyzer instead of from the front panel. Brian KE6WL wrote a computer program to test 2-meter handhelds. With Terry's (WA6RNF) assistance, Al tested handhelds for those interested and provided them with hard copy data of their radio tests.

**COMMITTEE REPORTS:**

REPEATER: Phil N6KZS - no news.

EDUCATION: Steve WA8LLY passed around a sign-up sheet for upgrade classes. He will consider a 2M CW class if there is enough interest.

PUBLIC RELATIONS: Hayes WB6KLU - absent.

PUBLIC SERVICE: Rudy N6KLU - needs volunteers for the April 26 Walkathon and for the May 16 Rose Parade.

QSL: Doug WW6D - absent.

**TREASURER'S REPORT:** General Fund: \$431.29, Repeater Fund: \$1811.40.

The badge raffle was a pair of locking forceps won by Candy N6NSG.

The attendance raffle of \$36.90 was lost by Lowell K6SRD.

**OLD BUSINESS:** None.

**NEW BUSINESS:**

The dues structure will be the same as last year.

The Sebastopol Community Center has been reserved for the Swap Meet on Sept. 19, 1987. Time: Vendor set-up 7 AM, public sales 8 AM - 2 PM. It was voted to keep the time and prices the same as last year. (m/Al;s/-)

PACKET: Al presented his ideas on packet, reportedly the fastest-growing area of Amateur Radio. It is ideally suited to emergency communications, provides hard copy, and allows storage of information on disk for later use. The following motion was made by Al N1AL and seconded by Jim WB6PER: WHEREAS: Packet radio is the fastest-growing new technology in Amateur Radio today, and packet is superbly suited for use in emergency and public service communications, and SCRA, as a broad-based general-interest Amateur Radio organization, should attempt to encompass as many Amateur special-interest groups as possible, THEREFORE: We, the members of SCRA, declare that the club should support and encourage the development of packet radio by such means as the membership may from time-to-time find feasible. Motion carried.

A motion carried to set aside \$900 from the Repeater Fund for packet radio, and to set up a committee to investigate available equipment and report back to the membership. (m/Al;s/Brian)

A motion was made by Paul AE6H at the Board meeting to have the club purchase two 440 MHz radios for controlling the repeater. Al volunteered to look at the old radios that Paul has to determine if a PL deck could somehow be glued onto the outside of these existing radios before we buy new ones. Al will report back to the Board.

CORRESPONDENCE: From REDX club - a new challenge on Field Day. From Northern Kentucky Tower Fund - an update on the fight against antenna ordinances. SCRA donated \$25 to the cause. From RACES Board Chairman - describing the upcoming elections.

The following motion was made by Garry and seconded by Rudy:

I hereby make a motion to the general membership to change the Constitution and Bylaws to read as follows:

The Treasurer shall be authorized to issue, without Board of Directors approval, operational funds to any officer of this club whose job description is allotted a Board of Directors approved budget. That each officer having an approved budget, be allowed to withdraw amounts up to \$25.00 per month from their budget (with the exception of the Newsletter Editor, whose expenditure limit shall be set at \$100.00), without direct Board of Directors approval, any amount above this amount, shall be required to have direct Board of Directors approval. I also move that the Treasurer be authorized to issue checks that are directly related to the operation of this club, without direct Board of Directors approval, providing that the amount does not go beyond what the Board of Directors is authorized to spend without General Membership approval. All expenditures, from all officers, shall be listed in the Treasurers report at each Board of Directors and general meetings. All checks issued by the Treasurer shall require two signatures, the Treasurer and one other officer, or, in the Treasurers absence, any two authorized officers. The decision for defining what parts of this motion are Constitutional, and what parts are Bylaws, shall be decided by the Board of Directors.

Don WA6ACX stated that starting Tuesday Feb. 10, Don will take check-ins on the Tuesday Club Net on 28550 voice, and Doug WW6D will take check-ins on 28150 CW. The test will last a couple of weeks to see if there is sufficient interest to continue.

Steve WA8LLY said he checked into County Zoning Ordinances to see if there was any height restrictions. None were found.

Meeting adjourned at 9:22 PM.

Minutes submitted by Susan Schuyler N6IRJ, SCRA Secretary.

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#### NEW MEMBERS SINCE FEBRUARY:

Gary R. Harwell WA6ALL  
3986 Parker Hill Rd.  
Santa Rosa, CA 95404  
538-9283

Hal Finley N6BTR  
PO Box 566  
El Verano, CA 95433  
935-0640

Charles Mackey K6ENP  
5555 Montgomery Dr #53  
Santa Rosa, CA 95405  
579-6908

Kurt R. Irmiter KA6EYN  
1068 Wren Dr.  
Petaluma, CA 94952  
763-7486

Herb Upham WD6FMG  
4747 Vine Hill Rd.  
Sebastopol, CA 95472  
823-1251

Jeremy Light KB6KUI  
829 Sonoma Ave #7  
Santa Rosa, CA 95404  
527-0456

Dale C. Vawter N6MRV  
1350 Gaspar Ct.  
Rohnert Park, CA 94928  
584-4670

Valerie Potts KB6MYG  
617 Sunny Manor Way  
Santa Rosa, CA 95401  
545-0285

Candy Vawter N6NSG  
1350 Gaspar Ct.  
Rohnert Park, CA 94928  
584-4670

John Hall KB6NVJ  
813 Maple Dr.  
Petaluma, CA 94952  
762-5198

John Wallack W6TLK  
7661 Sonoma Hwy  
Santa Rosa, Ca 95405  
833-1873

Buren Eagle W6VXI  
309 Coronado Dr.  
Petaluma, CA 94952  
762-8776

We now have 185 members.

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## EDITORIAL

If there is a red "DUES ARE DUE" stamp near your address label on this issue of Short Skip, then records show you have not yet renewed your membership for this year. Bring your \$12 to the next club meeting or send to SCRA, Box 116, Santa Rosa CA 95402.

## INTERNATIONAL DX CONVENTION

Local hams Len K6ANP and Lyle WW6F chair the Intl' DX Convention April 3-5 in Visalia. The program this year includes Jim Neiger N6TJ (JY7Z) and Lloyd and Iris Colvin, and plans include Ron ZLLAMO (Christmas Is), Chuck KC7UU (Egypt/Sudan), and DJ6SI, Baldur. Plus: DX & Contest Forum, CW contest, Saturday banquet, Sunday brunch, Friday nite cocktail party courtesy The DX Bulletin & NCDXC, and Saturday nite cocktail party courtesy US Towers.

Hotel registration: Holiday Inn Visalia 209-651-5000. \$43 single, \$51 double. Pre-registration includes all activities and is \$40 if postmarked Before March 8 or \$45 after. A meal package is available separately for \$30 and seminars only for \$15. Make checks payable to the "DX Convention 1987".

Send to Jim Hicks KK6X, 2260 Santa Fe Drive, Santa Rosa, CA 95405.

## NEW CALLS AROUND THE COUNTY

Was... Is...

N7BMZ	NY7J	H.L. (Larry) Clark
N6NWZ	KI6LS	Ren Baculo

I don't like the new procedures for issuing Autopatch codes. Already I know of at least one long-time, active club member who was denied the codes because of the new system.

He was told that you have to show up at two meetings: one to get the application and one to receive the codes. This particular ham has been active in SCRA since before some of us were licensed, and I feel it was insulting to deny him the info.

One of the original reasons for the new procedures was to make it harder for Jammers to abuse the autopatch. I don't pretend to understand the psychology of these unfortunate individuals, but I suspect they are aware that there ARE easier (and cheaper) ways of discovering the autopatch codes than paying the \$16 to join SCRA.

The other argument I've heard is that members should be interested in the club as such. We don't want people to just send in their \$16 to "buy" use of the autopatch. If we feel that "buying" the autopatch is wrong, why do we let people "buy" the repeater? There are a number of club members who are not intensely interested in club affairs, and just mail in their dues as "conscience" money to help support the repeater. If this is OK, then why is it not OK when it comes to the autopatch?

It's true that Novices are not licensed to use the autopatch: They are not licensed to use the repeater itself. If a Novice is using '73, then the autopatch is the least of our problems. I can think of two valid reasons for a Novice to want the information: 1) To be able to use the patch as soon as possible when his new license arrives, and 2) For use in an emergency.

I think we should return to the old method, and issue the codes to any paid-up member who asks.

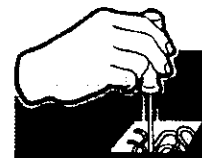
-- NLAL

## SIXTH ANNUAL HOMEBREW CONTEST

Bring your latest creation to the April meeting for the sixth annual SCRA Homebrew Contest. You do not have to be an electrical engineer to win this one. Don't forget that the winner's name is added to the plaque in the club's trophy case. The judges will be Brian, KE6WL, last year's winner and Steve, WABLLY. With the club's two inveterate homebrewers as the judges this year's competition should be a wide open affair. This year there will be only one category.

## RULES

1. Contest is open to SCRA members only.
2. Schematics or program listing must be supplied.
3. Project must be amateur radio related.
4. The equipment or program listing must be brought to the club meeting on the contest night. Exceptions will be made for large projects, such as antennas. In such cases bring a photo or other documentation.
5. Proof of operation shall constitute plugging the gear in and operating it. Otherwise submit test data to show that it works as intended.
6. The winner will receive a certificate, and his name will be engraved on the SCRA homebrew contest plaque.



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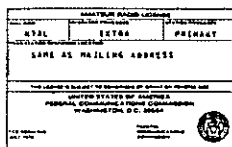
## ENTRY FORM

Name \_\_\_\_\_

Project \_\_\_\_\_

## JUDGING CRITERIA

Circuit complexity and sophistication of function	_____ (15)
Novelty, ingenuity, economy of operation (original designs only)	_____ (10)
Proof of operation	_____ (15)
Utility and operation convenience	_____ (10)
Neatness, appearance, workmanship	_____ (15)
Use of surplus and/or readily available parts	_____ (15)
Judges' discretion	_____ (20)
<b>TOTAL</b>	<b>_____ (100)</b>



## UPGRADE CLASSES

The Technician/General upgrade class will start on Thursday 12 March. The sessions will start at 7PM at the EOC (the old SCRA meeting place). Each session will be 2 hours. The ARRL Technician/General License Manual (1986-87 edition) is the study guide. Your instructor is Steve, WABLLY. My phone number is 823-4544 (8-9:30 PM) if you have questions.

## ELMERS NEEDED

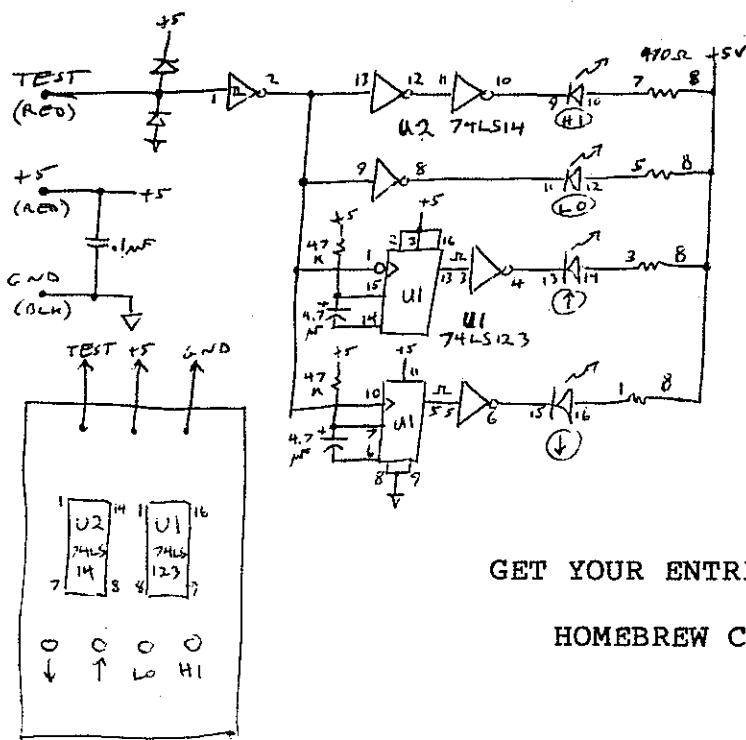
There is a need for instructors for a Novice class and an Advanced class. You don't have to be an electrical engineer to teach these classes. We have a number of students just waiting for that special Elmer. Why can't it be you? For those of you who indicated interest in an Extra class, I will teach one next Fall. In the meantime start working on that 20 wpm code.



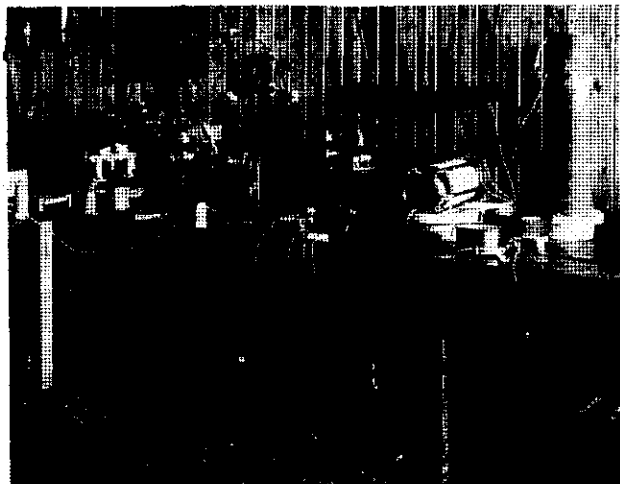
## WAS/VUCC Awards

After a year of correspondence, I have received accreditation for WAS, SBWAS and VUCC awards. What this means to you is that it is no longer necessary to send your QSLs to ARRL to receive your (5 Band) Worked All States and VHF/UHF Century Club Awards. I have all the forms and will be happy to approve your application at the SCRA club meetings. You must be an ARRL member for these awards, so be sure to bring the mailing label from your latest issue of QST. Please have the forms filled out before the meeting. You can send me an SASE for the forms or pick them up at any meeting. Steve, WABLLY (823-4544).

## LOGIC PROBE



TOP VIEW



GET YOUR ENTRIES READY for the  
HOMEBREW CONTEST!!!



**MOTION TO AMEND THE SCRA  
CONSTITUTION AND BYLAWS**

The text of the motion appears in the minutes, this issue.

REASONING: The Constitution (Article X, Item 3) states "Expenditures from either fund must be approved by the Board of Directors. Any expenditure over a certain amount as defined in the Bylaws shall also be approved by the general membership." The Bylaws (#11) states "'Expendable items' are defined as such expenses as telephone charges, repair parts, postage, shipping and handling charges, and the like." There is considerable confusion regarding these two statements, so I think this motion helps to clarify this confusion. There are items that need to be purchased between Board of Directors meetings that are essential to the operation of this club, and the officers of this club should be authorized to purchase these items without having to wait til a Board of Directors meeting to have their purchases approved. The officers of this club were voted into office by the general membership, and with that voting in, comes a certain amount of trust in these persons. To say that they cannot purchase a Treasurer's receipt book, a Secretary's notepad, printing of the newsletter, renew ARRL membership for our members, or purchase the required postage necessary to operate the office that they were elected to be responsible for, without direct Board of Directors approval, is detrimental to the operation of the organization. All officers are accountable for any monies that they spend, and reports are read at all General and Board of Directors meetings stating who has spent what, and for what. I can find no valid reason why this motion should not be approved as stated.

Respectfully submitted,

Garry Palmer N6ONZ, SCRA Treasurer

**HAMS AT HEWLETT PACKARD**

The Santa Rosa HP Amateur Radio group met two weeks ago at HP. They have a station set up at the plant (purchased by HP) with an ICOM IC735 HF rig, a Kenwood 2550 45-Watt 2M FM radio and 3 IC 2AT handi-talkies. Antennas include a 4 el 2M beam pointed south and an all-band HF vertical. Station managers are Jim Moir and our own Ed Goei KA5LGC.

The rationale for HP purchasing the gear was for emergency backup communications in time of disaster.

19 Hams showed up at the meeting, of whom 5 are already RACES members. 9 others expressed an interest in RACES.

- N1AL

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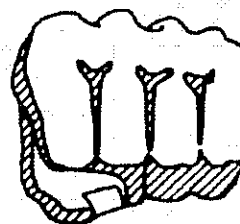
**INTRODUCING THE  
NORTHERN CALIFORNIA CONTEST CLUB**

You have probably handed out a few contacts in a radio contest, or maybe wondered what the fuss was about. Well, it's another fun aspect of our fine hobby. The variety of radio contests today insure that most Hams can find one involving their favorite band, mode or region.

The major focus of the NCCC is contesting, and we target a few contests each year as an all-out club effort. We have monthly meetings and a club repeater (W6RGG on 147.24) for spotting information during contests and casual conversations at other times. The NCCC sponsors the California QSO party, an event that all agree is the best and largest state QSO party.

For more information, please contact me by letter, on 2 meters, or (209) 368-1121. 73

-- Duane W6REC



PAY YOUR DUES!



## BUDGET FOR FISCAL 1987



NEWS of Amateur Radio

## EXPENSES:

	Actual 1986	Projected 1987
Insurance	\$350	\$350
Field Day	150	200
Badges	120	160
Westlink contributn	25	25
Westlink phone bill	150	150
Secretary Expenses	100	125
Treasurer Expenses	50	75
Miscellaneous	55	150
Short Skip	1600	1490
Picnic	125	150
Christmas Party	175	250
Education	50	50
Trophies	100	100
World Radio	60	60
Public Relations	25	25
	<u>\$3135</u>	<u>\$3360</u>

## INCOME:

Dues & Initiations	\$1800	\$2000
Flea Market	800	800
Raffle	100	100
Coffee/donuts	0	0
Donations	0	0
ARRL Memberships	10	10
Short Skip Ads	700	1000
Education	50	50
	<u>\$3460</u>	<u>\$3960</u>

**NOVICE ENHANCEMENT!** As of 0001 UTC March 21 (4:01 PM, Friday March 20), Novices may operate phone on 28.3-28.5 (SSB only), 222.1-223.91, and 1270-1295 MHz using 200, 25 and 5 Watts output on the 3 bands respectively. The 10 meter Novice CW band will be 28.1-28.3. Current Novices & Technicians will be "grandfathered" into the new privileges. The Novice exam will be expanded to 30 questions, and 2 (rather than 1 examiners will be required. The General/Tech element 3 written exam will be split into two parts: 3(A) for Tech, and 3(B) for General. (ARRL)

**SPECIAL CALLSIGNS** would again be available if an FCC proposal (PRB-3) goes through. They propose that FCC issue only one 2x3 callsign from the NA-NZ block to each new licensee, regardless of license class. All requests for call sign changes would go to a Special CallSign Coordinator (SCSC) who could assign one or more supplemental calls to the licensee. The SCSC could charge a fee on a non-profit basis. FCC says they prefer having only one national SCSC for efficiency's sake. (ARRL)

**WE WILL LOSE 2 MHZ OF THE 220 BAND** if FCC's NPRM (General Docket 87 14) goes through. It would give 220-222 MHz to the Land Mobile Service and make 223-225 MHz exclusive Amateur. Reason given: 220-225 MHz is now "underutilized". Comment filing deadline is April 6. (W1AW)

Thanks to the ARRL Letter, and W1AW bulletins for the above info.

TNX ARRL  
FIELD FORUM



# HAM RADIO

A Community  
Resource

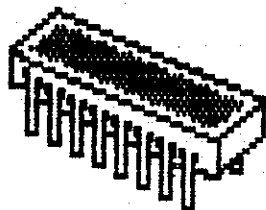


The American Radio Relay League  
Newington, CT 06111

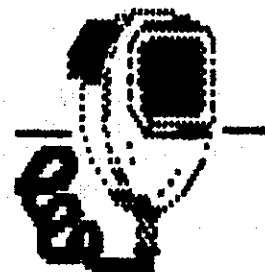
## New Neighbor Relations Tool For Hams

Ever wish you had a brochure to help you explain the community benefits of Amateur Radio and antennas to your neighbors, especially when they express an "interest" in your 40-foot tower and beam? Introducing a new ARRL brochure entitled "Ham Radio: A Community Resource". Produced by the ARRL's Club Services Department, this handy brochure gives non-hams answers to why specialized amateur antennas are necessary, how hams provide emergency communications, the differences between Amateur and Citizen's Band Radio, how hams can be helpful to their community organizations and whom to contact for more information on becoming a ham.

For copies, contact ARRL HQ Club Services Department, 225 Main Street, Newington, CT 06111.



# H.S.G.



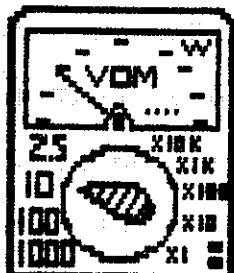
## ELECTRONIC SUPPLY

6819 SOUTH SANTA ROSA AVENUE - COTATI

792-2277

ONE BLOCK SOUTH OF NEW K-MART IN ROHNERT PARK

MFJ	1270 PACKET TNC	\$139.00
AVANTI	On-Glass 2 Meter Antenna	\$42.50
LARSEN	2 Meter 5/8 Wave Mag-Mount Complete	\$37.00
COM-SPEC TT Encoders	RF CONCEPTS 2 Mtr Amplifiers	
REGENCY/BEARCAT Scanners	GORDON WEST CW Tapes	
<b>SPECIAL: ALINCO HANDHELD with:</b>		<b>\$328.00</b>
<b>EXTRA NICAD PACK and SPEAKER MIC</b>		

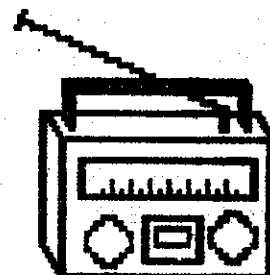


CONSIGNMENT NOW TAKEN

ON AMATEUR RADIO GEAR!

PHONE IN YOUR ORDERS,

DELIVERY BY NEXT-DAY UPS!

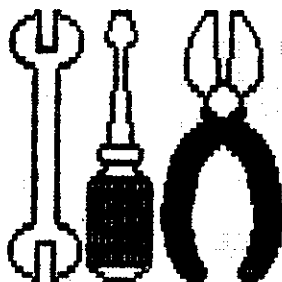


### WE STOCK THE MAJOR PRODUCTS & BRANDS

MIRAGE LINEARS, KLM ANTENNAS, ARRL PUBLICATIONS, VAN GORDEN ANTENNAS, DICK SMITH PRODUCTS, LARSEN ANTENNAS, TAB BOOKS, AND MANY MORE!

### COME VISIT OUR COMPUTER & HAM ROOMS

HAVE A FREE CUP OF COFFEE, BROWSE AROUND THE STORE AND SEE ALL THE SURPLUS BARGAINS THAT ARE AVAILABLE. CHECK OUT OUR NEW AND USED COMPUTER EQUIPMENT IN THE "COMPUTER ROOM". STOP INTO OUR (SOON TO BE COMPLETED) "HAM ROOM" AND "QSO" WITH YOUR LONG LOST FRIENDS. COME CHECK US OUT, YOU'LL BE HAPPY YOU DID!



**ADVERTISE IN SHORT SKIP?**

You can now advertise in Short Skip for only \$10. A business card (or same-size ad) in a single issue is just 10 bux, or get the whole year (12 issues) for the special rate of \$90, paid in advance. Tell a friend!

**HANK'S SWAP SHOP**

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

KENWOOD 500 Hz filter for 430's,  
etc. Sam Brewer WN6W

**VEC EXAM RESULTS**

Saturday, Feb 21, Sebastopol, CA

# UPGRADES	TEST RESULTS (pass/take)
TECH 4	1B 13 wpm 4/8 50%
GEN 3	1C 20 wpm 2/2 100%
ADV 3	3 General 5/5 100%
EXTRA 3	4A Advncd 5/6 88%
EXTRA* 1	4B Extra 3/3 100%

Total attending = 16

\* Certificate of credit for written

**YOU CALL, I HAUL!**

Gravel, Sand, Dirt, Manure, Woodchips,  
Rocks, Dump Runs & General Cargo

**REASONABLY PRICED**

I also do WELDING, MISC. REPAIRS  
and COMMODORE DISK DRIVE ALIGNMENTS

GARRY N6ONZ 584-3425

SAVE THIS AD FOR FUTURE REFERENCE

**EVENTS CALENDAR:**

(Don't forget SCARS net every Tuesday at 7:00 PM on 146.13/73)

Don't forget the 10 meter net  
Feb 24 and Mar 3 at 7 PM  
28.150 CW and 28.550 phone.

**MARCH:**

- 2 - RACES etc. Net 7:30 PM
- 4 - SCRA meeting 7/7:30 PM
- 1987 DUES PAYABLE!
- 7-8 - ARRL DX Contest (Phone)
- 11 - Board meeting EOC 7:30 PM
- 16 - RACES etc. Net 7:30 PM
- 19 - CDF VIP Meeting 7:30 PM
- 24 - RACES Board Mtg. EOC 7:30 PM
- 28-29 - CQ WPX SSB Contest

**APRIL:**

- 4-5 - Sebastopol Apple Festival
- 24-26 - Dayton Hamvention
- 26 - March of Dimes Walkathon

MAY 23-25 - Golden Gate anniversary

JUNE 27-28 - Field Day **BEAT REDX!**

AUG 15 - SCRA Picnic, details later

SEPT 19 - SCRA Flea Market

DEC 5 - SCRA Christmas Party

VE EXAMS HOTLINE NR: 408-984-8353

**NETS AROUND SONOMA COUNTY:**

SCRA 2 M net: Every Tuesday  
7 PM, 146.73

SCRA 10 M net: Every Tuesday  
(may change) 7 PM, 28.150/28.550

RACES etc net: 1st/3rd Mondays  
7:30 PM, 146.73

YL Net: Every Thursday  
7:30 PM, 146.73

REDX DX Net: 2nd/4th Wednesdays  
8 PM, 146.73

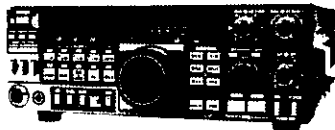
So Mt Rpt Asn: Every Tuesday  
8 PM, 146.91

**HAM RADIO OUTLET**  
LARGEST HAM OUTLET IN THE WORLD

OUR COMMITMENT TO YOU IS  
QUALITY, ACTION & SERVICE.

## 7 STORE BUYING POWER

### KENWOOD TS-711A TS-811A



Ideal VHF/UHF base stations for  
2M/70CM transceiver operation.

**GREAT PRICES. CALL**

### KENWOOD TS-940S



TOP-OF-THE LINE  
HF TRANSCEIVER

**CALL FOR LOW, LOW PRICE**

### KENWOOD **NEW** TH-21BT/31BT/41BT

MINI HAND-HELD  
With dip switch  
programmable  
CTCSS encoder  
built-in.



**GREAT  
PRICE!**

### KENWOOD TS-440S



HF TRANSCEIVER

- 160-m to 10-m Amateur Band
- 100-kHz to 30-MHz General
- Available with optional  
built-in Antenna Tuner

**CALL FOR PRICE!**

### NOW! RAPID DELIVERIES

**COAST  
TO COAST**

**FROM STORE NEAREST YOU**

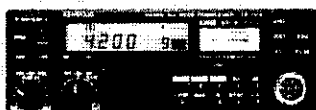
### KENWOOD TM-2570/2550/2530



Compact FM  
Mobile Transceivers

**LOW PRICE!**

### KENWOOD TR-751A



COMPACT 2-METER  
ALL MODE TRANSCEIVER  
**LOW PRICE!**

### KENWOOD TM-3530A



The First Comprehensive  
220 MHz FM Transceiver.

**ARE YOU READY FOR  
220 MHz OPERATION?**

### KENWOOD TH-205AT

The  
Ultimate  
Affordable  
Portable!

**NEW**



**GREAT PRICE!**

**All Major Brands in Stock Now!**



**Bob Ferrero W6RJ**  
President

**Jim Rafferty N6RJ**  
VP So. Calif. Div.  
Anaheim Mgr.

**ANAHEIM, CA 92801**  
2620 W. La Palma  
(714) 761-3033, (213) 860-2040  
Between Disneyland &  
Knott's Berry Farm.

**ATLANTA, GA 30340**  
6071 Buford Hwy.  
(404) 263-0700  
Neil, Mgr. KC4MJ  
Doraville, 1 mi. north of I-285

**BURLINGAME, CA 94010**  
999 Howard Ave.  
(415) 342-5757  
George, Mgr. WB6DSV  
5 miles south on 101 from SFO

**OAKLAND, CA 94606**  
2210 Livingston St.  
(415) 534-5757  
Al, Mgr. WA6SYK  
17N-Sin Ave./17S-16th Ave.

**PHOENIX, AZ 85015**  
1702 W. Camelback Rd.  
(602) 242-3515  
Bob, K7RDH  
East of Hwy. 17

**SAN DIEGO, CA 92123**  
5375 Kearny Villa Rd.  
(619) 560-4900  
Tom, Mgr. KM6K  
Hwy. 163 & Claremont Mesa Blvd.

**VAN NUYS, CA 91401**  
6265 Sepulveda Blvd.  
(818) 988-2212  
Al, Mgr. K6YRA  
San Diego Fwy.  
at Victory Blvd.

**STORE HOURS**  
10 AM-5:30 PM  
**CLOSED SUNDAYS**

**FREE  
SHIPMENT**

**CALL TOLL FREE (800) 854-6046**

Toll free including Hawaii. Phone Hrs: 7:00 am to 5:30 p.m. Pacific Time. California, Arizona and Georgia customers call or visit nearest store.  
California, Arizona and Georgia residents please add sales tax. Prices, specifications, descriptions subject to change without notice.



NEW LOCATION!

# LETTER SHOP PRINTING

4283 Montgomery Dr., P.O. Box 2618  
Santa Rosa, CA 95405 • 539-1252

## A FULL SERVICE PRINT SHOP

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|----------------|-----------------|---------------|
| Announcements  | Envelopes       | NCR forms     |
| Booklets       | Enlargements    | Negatives     |
| Brochures      | Flyers          | Newsletters   |
| Business cards | Film processing | Numbering     |
| Business forms | Graphics        | Pamphlets     |
| Binding        | Hole punching   | Postcards     |
| Bulletins      | Invoices        | Posters       |
| Copying        | Illustrations   | Price lists   |
| Collating      | Labels          | Reductions    |
| Catalogs       | Letterheads     | Resumes       |
|                | Manuals         | Reports       |
|                | Mailing labels  | Rubber stamps |
|                |                 | Stationery    |
|                |                 | Stats         |
|                |                 | Typesetting   |
|                |                 | Tickets       |

Wedding announcements

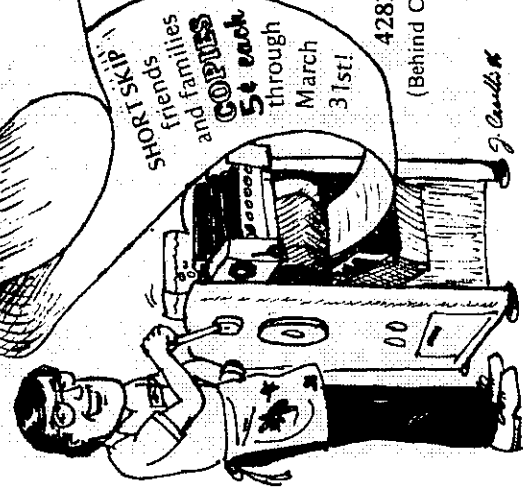
... and more!

Remember us for ALL  
your printing & copying needs!

PHIL & MARSHA

**539-1252**

4283 Montgomery Drive — Santa Rosa  
(Behind Carms Restaurant — Lakeside Shopping Center)



*J. Carls*

Sonoma County Radio Amateurs, Inc.  
PO Box 116  
Santa Rosa, CA 95402

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SANTA ROSA, CA  
PERMIT NO. 658

Address Correction Requested