

# SHORT SKIP

Sonoma County Radio Amateurs, Inc.



Club Station

NOVEMBER 1987 W6LFJ

P.O. Box 116

Santa Rosa, CA 95402

Repeater Station

WB6PVS

VOL 12 # 11

WALES

## GW3UNH

37 Heol Isaf, Nelson, TREHARRIS, Glamorgan.

To Radio **WA3JSU** Tks 14 mcs

Fone : CW QSO on **14.7** 1981

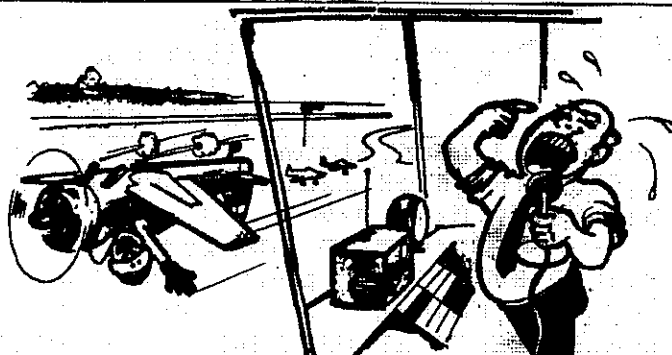
At **2245** GMT. Ur RST **S 79**

Tx **DX40** Rx **AR88**

Ant **END FED 132 ft**

PSE - TKS QSL Direct or via RSGB.

*73 Norman Halford  
Norman*



## OE3REB

RONALD EISENWAGNER

AUSTRIAN MILITARY RADIO SECTION  
AIR FORCE

B A M B E R G



## DL8NG

THE FIRST DX-PECTION BY YU DXG

## 4N2HV

HVAR ISLAND — ADRIATIC SEA — YUGOSLAVIA

Radio **WA3JSU** cfm our 2X CW ~~QSO~~ QSO of **01.** July-Aug. 1970.  
at **21.58** GMT. Ur RST **S99** on **21** MHz.

Equipment: HW-100, SWAN 500 C — 3 BAND 2 EL QUAD — W3DZZ

Operators: Ljube — YU1QBC (18CD), Miro — YU1NXB, Tom — YU2NEG,  
Pol — YU3BU, Tine — YU3EY, Mujo — YU3TCB

QSL via YU2NEG

73

LITHUANIA

## UK2BBB

VILNIUS

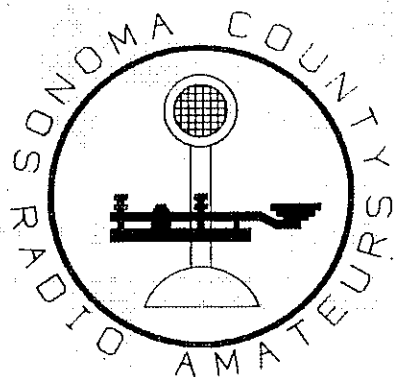
## KH6IJ

KATASHI NOSE  
4207 Huanui St.  
Honolulu, Hawaii  
U.S.A. 96816



Thank you for our recent contact and your QSL card  
N1AL/8 NOVEMBER 5 1978 2112 GMT 28MHZ A1 589

HOW'D YOU DO? HAVE YOU TURNED IN YOUR DX LOGS TO WW6F YET?



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

PRESIDENT:	Connie Freitas	N6FYV	823-9691
VICE PRESIDENT:	Russ O'Neill	N6KMJ	823-9691
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

ARRL LIAS: Alan Bloom N1AL 538-7115  
 ASST. DIR: Chuck Sabin N6DDK 795-2371  
 BADGES : Hank Davis W6DTV 823-7885

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

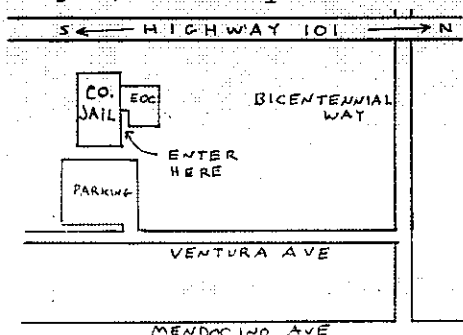
PUBLIC SVC: Rudy Mappus N6KLU 664-1978  
 PROGRAM CHAIRMAN: Phil N6OOA 838-2912  
 REFRESHMENTS AT MEETINGS: Bob WD6DPE  
 GREETER AT MTGS: Sarah Davis N6FAX  
 RAFFLE: Rich KA6SSL Ken N6MHG Barry N6MHH  
 QSL MANAGER: Doug Bender WW6D  
**VEC EXAMS:** Hank W6DTV 823-7885, WA6ACX  
 N1AL K6ANP AG6C WD6CKP 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  
 NOMINATING COMMITTEE: W6DTV 823-7885  
 WD6CKP 542-6750 N6MRV 584-4670  
 INTERFERENCE CHR: John W6CCY 823-1357

## -----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: Nov. 4, 1987.  
 PROGRAM: Talk by Sonoma County's new  
 Dir. of Emergency Services, Dan Nichols  
**DUES** are \$12/year, plus a one-time \$4  
 initiation fee. (Includes call sign/  
 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



### THE PRESIDENT'S CORNER

1987 is quickly drawing to a close. What does that mean? Well, it means it is time for all club members to have a say as to whom they wish to run the club for 1988. The November meeting will be election time, so if you haven't attended a meeting for a long time or haven't attended a meeting at all, now is the time to come and take part.

You have one more chance to make a donation to the food basket. If you cannot donate food, then you may send a check to the club specifying it to go for the food basket. The food basket will be going to the Salvation Army in Santa Rosa. They provide a great service to the community throughout the year.

The Xmas party will be at North's Chuck Wagon on Sonoma Highway. All members who have made reservations with Marie will receive a ticket. Be sure to bring the ticket with you. Someone will be near the cash register to collect the ticket and check you off the list. Then everyone will meet in the banquet room. After the majority of people have arrived, then we can go through the food line.

The speaker for the November meeting will be Dan Nicholis. He is the new EOC director who took Pete Peterka's place.

There is over \$90.00 in the membership lottery. There will probably be over \$100.00 during the November meeting. This will be the last time the lottery will be drawn for the year. Numbers will be pulled until someone who is attending the meeting wins the money.

Have a good month.

- 73 Connie N6FYV



BYE, BYE,

### MEMBERSHIP LOTTERY?

For several years, we have had a 25-cents-per-member lottery for club members each meeting. After everyone coughs up, a membership number is drawn. If that person is present, he/she takes the \$\$\$. If not, the money is held over until next month. Those who don't want to participate, can have their name removed from the list.

Currently, there is around \$97 in the pot, which will be well over \$100 for the next drawing. The Board decided that if the "winner" is not present, we will keep drawing until someone wins, so as not to let the pot get too big.

We also will be having a vote of the members present as to whether we should do away with the drawing. The original intent of it was to induce members to come to club meetings. The Board felt that we already have two other drawings (free badge raffle plus paid raffle), and that these should be enough.

- NLAL



### MEMBER OF THE YEAR AWARD

We are still looking to hear from you regarding your nomination for the "Member of the Year" award. Please be sure to write me concerning your nominee immediately. The Nominating Committee will only consider written recommendations received on or before October 31.

- Rudy N6KLU

## MINUTES OF THE GENERAL MEETING OF SCRA, OCTOBER 7, 1987



Officers present: President: Connie Freitas N6FYV, Vice President: Russ O'Neill N6KMJ, Secretary: Marie Mappus KI6QY, Treasurer: Al Bloom N1AL, Repeater Chr: Hoppy Bravin WD6CKP, Activities Chr: Lyle Meek WW6F, Members at Large: Don Osborne WA6ACX, Brian Torr N6IIY.

Visitors: Bill Wood, Ran Reid, Tom Hitchcock, Clyde Underwood KB6UGF, and Tom Spencer KB6UGB.

The meeting was called to order by President Connie Freitas N6FYV at 7:35 PM.

Warren WB6RHP made a motion to approve the minutes of the September meeting as published in Short Skip, and Russ N6KMJ seconded it.

Al N1AL gave the Treasurer's report. There is \$1920.00 in the General Fund and \$2320.00 in the Repeater Fund. Russ N6KMJ made a motion to approve the Treasurer's report, and Brian N6IIY seconded it.

Kermit W6JFN gave a very interesting talk on Amateur TV. He showed how it could be used in various situations, especially for use by the California Department of Forestry in spotting and viewing forest fires.

Hoppy WD6CKP stated that the repeater was working and there were no new problems. Chuck N6DDK asked about the ker-chunking on the repeater. It was considered to be either a problem of feedback on the repeater or else an antenna problem. Both would be up to the County to correct.

Jim WB6PER stated that he had been to the ARRL convention in San Jose and spoke to a representative regarding jammers. He said that he was told that the club should organize and take care of the jammer ourselves. He then suggested that the club purchase a doppler direction finder for this purpose. When queried further about the equipment, Jim said he was not too familiar with it or its cost. Warren WB6RHP answered the questions on the equipment and estimated its cost between \$650 and \$800.

Lyle WW6F opposed the purchase of this equipment as unnecessary since we were concerned basically with only one jammer, and the location of the jammer was already known. He suggested the possibility of either borrowing or renting a doppler direction finder as necessary. Rudy N6KLU recommended that the legalities of this activity be researched thoroughly before getting too involved.

Jim WB6PER made a formal motion for the club to approve a limit of \$700 toward the purchase of a doppler direction finder. Al N1AL recommended the motion be amended to require the Board to give its final approval before actually purchasing this equipment. The motion and the amendment were defeated by a 16-15 vote.

John W6CCY made a motion for the club to form an "Interference Committee" to look into the implications, ramifications, feasibility, etc. of the purchase of a doppler direction finder. The committee's findings would then be reported to the Board along with a plan of how to solve the "jammer" problem. Don WA6ACX amended the motion to include representatives of the 6.91 and the 5.25 repeaters on the committee. Connie N6FYV asked John W6CCY to head the committee, and he agreed to do so.

Steve WA8LLY stated that his upgrade class was about half way through the course. He is looking for a Novice instructor as there is a long list of people wanting to get into ham radio. There will be a class for Technicians if there are enough Novices wanting to upgrade.

Rudy N6KLU reminded members to send him their nominations for the "Member of the Year Award." The deadline for nominations is October 31. He also stated that there is still at least one more Public Service activity coming up on November 8 and asked for volunteers.

Lyle WW6F stated that the 25-50/25 Event will begin October 8th at 5:00 PM. Novices, Techs, and Generals need 25 DX contacts and Advanced and Extra class need 50 contacts.

Al N1AL plans to have packet operable for trial testing shortly. It will temporarily be located at his home until it is certain it is operating properly.

Aaron KA7YXF informed club members that they could buy T-shirts and hats with their call signs through his business. His phone is 829-2562.

Warren WB6RHP announced that there is a NARC meeting on Oct 10, 1987 and suggested that the club have a representative attend that meeting. It is being held at the Concord Water Dept. He also stated that it is necessary to get a sanction for the digipeater.

#### OLD BUSINESS:

Connie N6FYV again reminded members about the Christmas Party and the need to get reservations in to Marie KI6QY. The phone number is 664-1978.

The Nominating Committee for new officers for the upcoming year consists of Hank W6DTV, Hoppy WD6CKP, and Dale N6MRV. If you have any recommendations for new officers, please contact one of these persons.

#### NEW BUSINESS:

Phil N6OOA announced that the guest speaker for the November meeting will be the new head of the EOC, Dan Nichols.

Jud N6QAV won the badge prize. It was a two meter antenna.

Tracy Reese WB6TMY was picked for the membership prize. He was not in attendance, so the money will be held over for the drawing in November. The amount was \$91.00.

Chuck N6DDK made a motion to adjourn the meeting. Russ N6KMJ seconded the motion. The meeting was adjourned at 9:23 PM.

Respectfully submitted by Marie Mappus KI6QY, Secretary.



#### TREASURER'S REPORT FOR MONTH ENDING SEPTEMBER 30, 1987

ACCOUNT	REVENUE	EXPENSE
Activities	67.65	24.27
Refreshments	8.95	8.31
Dues & Initiations	77.00	11.00
Fund-Raiser	1560.00	944.54
Badges		3.18
Newsletter	84.00	172.07
Training/Education		3.00
Westlink		40.76
Member supplies	40.00	
Officers expenses		4.40
	-----	-----
	1837.60	1211.53
ASSETS:		
General Fund Account		1913.12
Cash/checks on hand		7.00
Total General Fund		1920.12
Total Repeater Fund		2032.20

-- de N1AL

Hi Gang!

Thanks for the swap meet flyer -- sorry but was not able to make it this year. Tell the old gang Hi for me. W6BLP Frank haven't heard him on 40 CW lately. I am on Monday - Friday 2230 UTC 14.050 CW, most any time on 7.115 if any need QSL AZ.

73 - Bill WD6BMT ex-WA6CCN, ex-Santa Rosa.



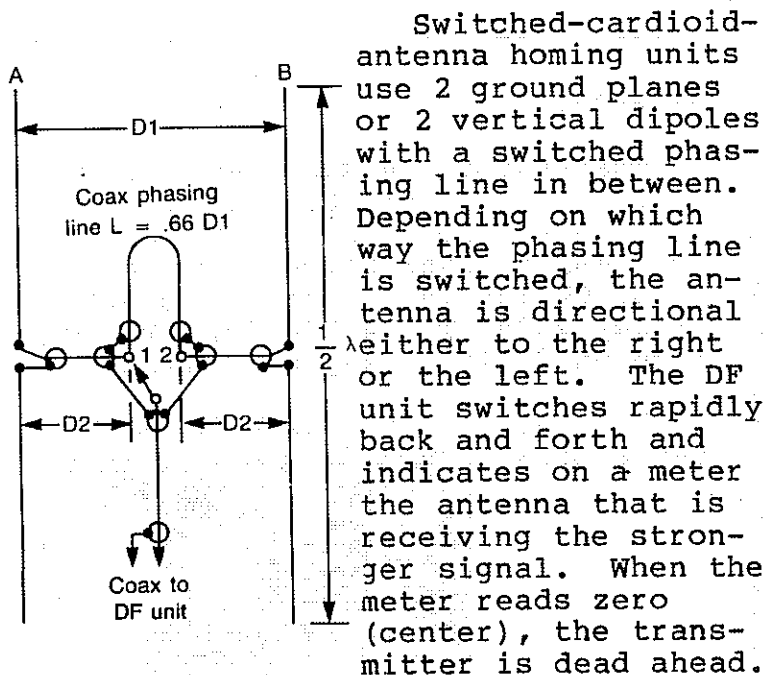
## BOOK REVIEW

### TRANSMITTER HUNTING RADIO DIRECTION FINDING SIMPLIFIED

by Joseph D. Moell KØOV and  
Thomas N. Curlee WB6UZZ

This is the most complete treatment of this subject I have seen. 23 Chapters in 322 pages cover everything from the history of RDF through finding ELT transmitters of downed planes by satellite (first done by amateur radio.)

Most of the book is concerned with equipment & DF'ing techniques. While they don't neglect the latest gear, the authors spend a surprising amount of time on directional beam antennas. Besides being cheap, a beam has a big advantage over other systems in mountainous terrain when multi-path propagation can make it difficult to get good readings. They also come in handy when the signal is too weak to copy on your state-of-the-art \$800 doppler system.



Switched-cardioid-antenna homing units use 2 ground planes or 2 vertical dipoles with a switched phasing line in between. Depending on which way the phasing line is switched, the antenna is directional either to the right or the left. The DF unit switches rapidly back and forth and indicates on a meter the antenna that is receiving the stronger signal. When the meter reads zero (center), the transmitter is dead ahead.

Advantages of this system are its simplicity and small antenna (good for foot searches with an HT.) One disadvantage is you have to turn the antenna for a zero indication: if the antenna is permanently mounted on your car roof, you can tell only whether the signal is to the left or

right, not its exact direction. Another disadvantage is you have to modify the radio to bring out the AGC voltage, and you MUST have some kind of attenuator to reduce signal levels. Multipath propagation can also be a problem with these units.

Doppler DF units use (typically) 4 antennas. As the unit rapidly switches between each antenna in turn, an apparent frequency modulation appears on the received signal. The direction is derived from the modulation's phase. A construction project for a complete doppler unit is included in the book.

Doppler DF units respond rapidly: If the jammer or "fox" transmits even for a second, you've got him. Also, since you get a 360° readout, you can use a permanent antenna mount on the car. Unfortunately, this is pretty much where you have to leave it, since 4 antennas are pretty unwieldy to carry on foot. Like switched-cardioid antennas, doppler units are susceptible to multipath.

The "Happy Flyers" is a group that specialize in searching for downed aircraft. One point they make is that the best DF system is many systems. If you have a beam for weak signal or multipath work, a doppler for the car, and a 2-antenna unit for when you get close, you've got the best of all possible worlds.

Actually, the most important piece of DFing equipment is that computer between the ears. Chapters 2, 3 and 4 concentrate on DF'ing techniques, and each discussion of a type of DF unit covers techniques specific to that type.

Other chapters cover: planning fox hunts, being the fox, Radiosport (athletic T-hunts), low-band DF'ing, DF'ing from fixed sites, commercial and military systems, a computer DF program, dealing with jammers, etc.

Tab Books, Blue Ridge Summit, PA 17214. \$17.95 ppd.

- N1AL



## NEWS of Amateur Radio

THE LA EARTHQUAKE saw Hams handling mainly Health and Welfare traffic, since no large communications emergency developed. (Westlink)

### PRB-1 WINS ONE IN LONG ISLAND.

A federal judge voided a ruling against K2LE denying his 86-foot tower based on the town's 25 foot height limit. The Zoning Board must now renegotiate based on a "balance

between the federal interest in promoting amateur operations and the legitimate interests of local governments in regulating local zoning matters." (ARRL)

11 WANT TO ISSUE CALLSIGNS. Filings to be Special Call Sign Coordinator include ARRL and the Radio Amateur Callbook. Some VEC's have also applied, including W5YI and W6NLG of the Sunnyvale VEC. Several profit-making companies applied as well. The League will do it only if it is the only SCSC. (Westlink)

Thanks to the Westlink Report, ARRL Letter for the above information.

### NOTES FROM

### THE MEETING/

### PICNIC LAST

### AUGUST . . .



**AMERICAN DIABETES BIKE RIDE PLUS**

On October 4, we assisted the American Diabetes Assn. with their annual 25k Bike Ride Plus which was held in and around the Santa Rosa area. While the turnout was very light, contributions to the Assn. exceeded last year's record by 20%.

The following is an excerpt from a letter I recently received from Vin Hoagland, Chairman of the Bike Ride Plus:

"On behalf of the American Diabetes Association, I would like to thank you personally, and the Sonoma County Radio Amateurs, for your participation in the Bike Ride Plus which was held last Sunday. The assistance your group provides is so helpful in allowing us to keep track of what is going on out in the ride, even though those of us in charge are back at the base station. I am always impressed by the organization and attention to details that your group has shown. It is a model for us to follow."

Many, many thanks to Hank W6DTV, Sarah N6FAX, Don WA6ACX, Irma KF6FX, Hans KI6PD, Hoppy WD6CKP, Connie N6FYV, Russ N6KMJ, Bob WD6DPE, Bob WB6EKV, Harvey K6KZ, Ruth WB6AQA, Ken N6GXI, Georgia N6GZU, John W6TLK, and Marie KI6QY for making this activity a big success.

Our next event, the Young at Heart Run, is scheduled for October 25. Following this run, we have the Windsor Whale Run on November 8. No additional volunteers are needed at this time for either run.

- 73, Rudy N6KLU

PHONE: (707) 792-2277

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**GEORGE SHEDORE**  
MANAGER

**NEW MEMBERS SINCE LAST MONTH**

Clyde Underwood KB6UGF  
1103 Navarro St.  
Santa Rosa, CA 95401  
527-5468

David Spencer KB6UGD  
111 Kay Court  
Cloverdale, CA 95425  
894-4787

We now have 195 members

**WLAW SCHEDULE OCT 25 to APR 1 (1988)**  
MTWThFSSn = Days of Week, Dy = Daily

**SLOW CODE PRACTICE:** (5 to 15 wpm)  
MWF: 6AM, 4PM. TThSSn: 1PM, 7PM.

**FAST CODE PRACTICE:** (35 to 10 wpm)  
MWF: 1PM, 7PM. TTh: 6AM. TThSSn: 4PM.

**CODE BULLETINS:** (18 wpm)  
Dy: 2PM, 5PM, 8PM. MTWThF: 7AM.

**RTTY (BAUDOT/ASCII) & AMTOR BULLETINS:**  
Dy: 3PM, 6PM, 9PM. MTWThF: 8AM.

**VOICE BULLETINS:**  
Dy: 6:30PM, 9:30PM.

Code practice and bulletin freqs:  
1.818, 3.58, 7.08, 14.07, 21.08,  
28.08, 50.08 MHz.

RTTY bulletins: 3.625, 7.095,  
14.095, 21.095, 28.095, 147.555 MHz.

Voice bulletins: 1.89, 3.99,  
7.29, 14.29, 21.39, 28.59, 50.19,  
147.555 MHz.

On Fridays (UTC), a DX Bulletin replaces the normal bulletins.

In an emergency, monitor WLAW for special bulletins: Voice on the hour, RTTY at 15 mins past, and CW on the half hour.







A NEW MINI-TNC from Pac-Comm is 50% the size of a TNC-2. Cost is only \$109.95 if ordered before Jan 1, 1988. It includes 32 kbytes of RAM, 32k of EPROM (unmodified TAPR TNC-2 software), RS-232C and TTL compatibility, watchdog timer, modem disconnect header, switch-selected terminal baud rates, and 12 VDC operation. Pac-Comm's order line is 1-800-223-3511 or 813-874-2980 for more info. (Tnx Gateway Newsletter)

THE RADIO SHACK COLOR COMPUTER has 2 new Packet programs available. The COCOPACT terminal program allows up to 9600 baud with split-screen display + many other features. COCOPBBS is comparable to the WORLI PBBS system. Send business-size SASE with "PACKET" written on the envelope to Spec-Com Software, POB H, Lowden, IA 52255. (Tnx Gateway)

### EVENTS CALENDAR:

Don't forget SCARS nets on Tuesdays.

#### NOVEMBER:

- 2 - RACES etc. Net, 7:30 PM
- 4 - SCRA meeting 7/7:30 PM
- 7-8 - 10-10 10 Meter CW Contest
- 7-9 - ARRL Sweepstakes, CW
- 8 - Windsor Whale Run
- 21-23 - ARRL Sweepstakes, Phone
- 16 - RACES etc. Net, 7:30 PM
- 19 - CDF VIP Meeting 7:30 PM
- 28-29 - CQWW CW DX Contest

#### DECEMBER:

- 2 - SCRA Christmas Party
- 12-13 - ARRL 10 Meter Contest

VE EXAMS HOTLINE NR: 408-984-8353



### ----- HANK'S SWAP SHOP -----

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

RANGER AR3300 10M all-mode Xcvr \$200  
COMDELL Speech Processor w/mic \$50.  
HEATHKIT Frequency Counter \$45.  
FLUKE Multi-meter w/case \$40.  
HALLICRAFTERS 23-channel CB \$25.  
TEMPO 2-meter HT \$125.  
CUSHCRAFT 11-el, 2-meter beam \$45.  
PAL 2-meter mobile ant, no mount \$10  
Base CB, tunable Rcvr w/ant/mic \$35.  
SPRINGFIELD Rifle 30'06 Scope, Mts, rings. \$325. N7JBO, 18629 Sonoma Hwy, Sonoma, McReynolds #69 5-7 PM.

FT-101EE \$325. Bob KB6EOC 542-5209.

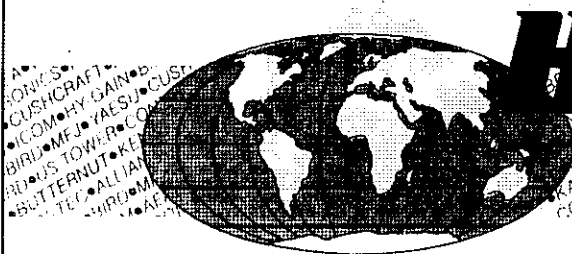
HEATHKIT RF Generator, Batt-operated RLC Bridge, Batt-op. Freq. counter. Hank W6DTV 823-7885.

WANT: JOHNSON NAVIGATOR & COURRIER.  
SELL: JOHNSON VALIANT. Tracy WB6TMY 527-8124.

WANT: HF Transceiver. Ruth Gilison 415-663-1033.

NYE VIKING Phone patch w/internal speaker. Will trade or sell \$40.  
VIC-20 & AIR-1 RTTY/CW/ASCII intrfc w/2 Commodore pwr supplies, games, datasette, books. Like new \$125 or trade. Bob WU6W 578-8480.





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2 METER



**FT-73R**  
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FOR  
LOW PRICE**



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**FT-211RH/FT-711RH**  
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**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-5th Ave / 17S-16th Ave

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

**SAN DIEGO, CA 92123**  
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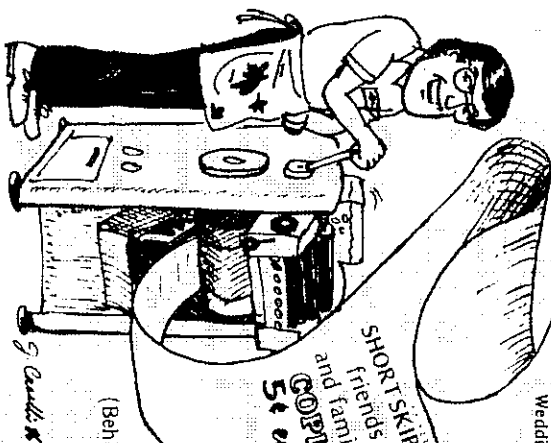
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