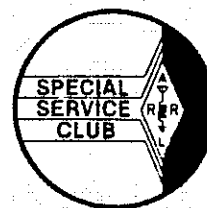


# SHORT SKIP

*Sonoma County Radio Amateurs, Inc.*



Club Station

P.O. Box 116

Repeater Station

**JANUARY 1987** W6LFJ

Santa Rosa, CA 95402

WB6PVS

**VOL 12 # 1**



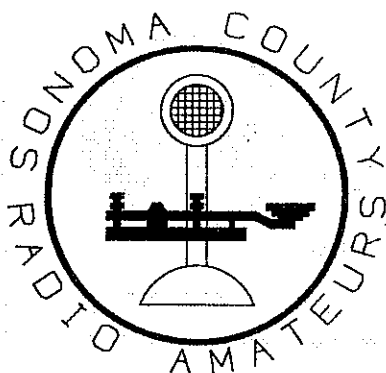
**SOME OF OUR NEW OFFICERS: N6KMJ, N6ONZ, WA6ACX, N6FYV, N6IRJ**



**MEMBER OF THE YEAR KS6W WITH  
MOY COMMITTEE CHAIRMAN N6MHG**



**SCRA PRES. KS6W ACCEPTING THE  
FIELD DAY PLAQUE FROM "DEFEATED  
BUT UNBOWED" REDX PRES. WW6D**



-----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: WB6RHP/WD6DPE

ARRL LIAS: Alan Bloom N1AL 538-7115

ASST. DIR: Chuck Sabin N6DDK 795-2371

PUB. RLATNS: Hayes Hunter WB6KLU 795-5938

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

PUBLIC SVC: Rudy Mappus N6KLU 664-1978

REFRESHMENTS AT MEETINGS: Bob WD6DPE

GREETER AT MTGS: Marie Mappus N6KUS

RAFFLE: Ken N6MHG, Barry N6MHH

QSL MANAGER:

VOL EXAMINERS: WA6ACX N1AL K6ANP

WW6F AG6C WD6CKP WN6D WW6D

W6DTV KF6FX WB6FRZ WA8LLY

EDUCATION:

PROGRAM CHAIRMAN: Phil N6OOA 838-2912

AWARDS CHAIRMAN: Steve Lund WA8LLY

MBR-OF-YEAR CHAIR: Rudy Mappus N6KLU

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

Alan Bloom N1AL-Jim Rutherford WB6PER

Jim Boyett WN6D-Phil Copenhauver 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

Emergency Operations Center (EOC).

NEXT CLUB MEETING: Jan 7, 1987

PROGRAM: Grand Truk DXpedition - WW6F

Meetings open to all, member or

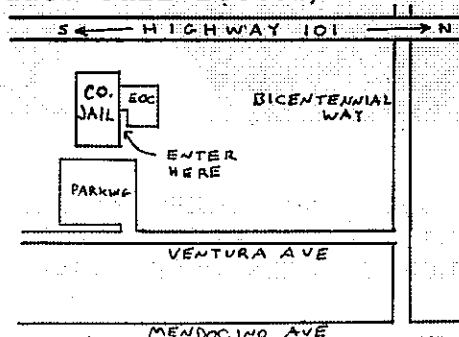
not. Need not be licensed to join.

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:

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

Pre-printed inserts:  
\$28 (8.5 x 11" 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

## THE PRESIDENT'S CORNER



I am looking forward to working with the club in 1987. One of the changes that will be coming in February will be our new meeting place. It will be at the Public Health Rotunda Room near Community Hospital. More information will be given at the January general meeting and in Short Skip.

Phil N600A will be scheduling some interesting programs for the coming year. January's program will be given by Lyle WW6F on his trip to the Grand Truck Islands.

Be sure you know where your name badge is because there will be a new raffle drawing beginning in February, and it will be important to have your name badge.

There have been some new Technicians on the air, so let's all try to make them feel welcome. Remember, we were once in their shoes.

Carolyn N6KLR will be club historian for the coming year. If you have any pictures or news articles, and would like to include them in the club scrap book, please get in touch with Carolyn. I have been going through old files and have come up with some "old photos". Very interesting!!!

The new greeter for the coming year will be Marie N6KUS. Since the meeting-room doors are open from 7 PM to 10 PM, I would like to invite you to come early for a time of socializing before the meeting.

See you January 7, 7:30 at the EOC. 73's

-- Connie N6FYV

## PROGRAMS

Phil Schleyer N600A is the new Program Chairman for 1987. The rule is: You may not complain about "boring" programs unless you have given Phil at least 3 good ideas. Think about what the club members might enjoy seeing, hearing or doing at meetings and call Phil with your ideas. 838-2912

## CHRISTMAS PARTY!

We had 44 families with guests for a total of around 75 people show up for the Christmas Party at the Windsor mobile home clubhouse. Lots of food, good times and fellowship (personship?). Music was provided by the "Ham Band", and the food was provided by everybody.

Thanks to Steve and Pat KD6GC and KF6AG for organizing one of the best Christmas Parties we've had in years!

-- N1AL

## WEAR YOUR BADGE!

Starting with the February meeting, there will be a free raffle for club members who are wearing their badges. Bring your badge so you won't miss out!

## NEW MEMBERS SINCE SEPTEMBER

Jud Spruce KB6OYC  
867 First St.  
Sebastopol, CA 95472  
829-1365

Sam Brewer WN6W  
512 Heavy Ct.  
Santa Rosa, CA 95401  
575-0400

Larry Mullinix K6ZIV  
8507 Vicky Lane  
Sebastopol, CA 95472  
823-8447

We now have 168 members

## NEW CALLS AROUND THE COUNTY

Was... Is...

KB6MXZ	N6ONZ	Garry Palmer
KB6NEY	N600A	Phil Schleyer

## REPEATER NEWS



Autopatch information will no longer be given out to anyone, pending a decision on who, among club members, will be allowed access to the autopatch. The Repeater Committee will put forward a recommendation at the next Board meeting.

The S-meter circuit has been assembled. The next step is to install it in the repeater.

## "FAMOUS" HAMS OF SONOMA COUNTY

We have a number of local hams known among the ham fraternity outside the confines of Sonoma County. In Callbook order:

Frank Jones W6AJF has published numerous VHF/UHF articles in the ham magazines. He was the original editor of the Editors and Engineers Radio Handbook.

Al Bloom N1AL is a former W1AW operator. He wrote the Advanced and Extra class chapters of an earlier edition of the ARRL License Manual.

Bob Shrader W6BNB is well-known in the Amateur Radio publishing field. His many books and articles include college electronics texts, commercial and amateur license guides, and articles in amateur radio magazines.

David W. Nurse W8GCD was president of the Heath Company during the "glory days" of its amateur radio equipment.

Chod Harris VP2ML is another former ARRL staffer where he was head of the Club and Training Department. A noted DX-er, he has published a number of ham radio articles and is now the editor of the DX Bulletin.

## HF PACKET -- COMMENTS AND TIPS

(Excerpted from article in QEX Magazine by Gregory P. Latta AA8V)

Anyone who has operated packet radio on the HF bands is aware that problems exist with this mode. The issue causing the most concern is the excessive number of retries.

Fortunately this is not an inborn trait of HF packet. Rather, the problem is a result of packeteers operating their equipment incorrectly. Here are some suggestions that may help to improve the situation:

1) Use the proper modem. The VHF modem that comes with your TNC is just not good enough. Several manufacturers now produce high-quality modems suitable for HF use.

2) Change the timing parameters in your TNC to values more suited to HF operation:

**FRACK** (FRAme ACKnowledge time): Since 300 baud HF packet takes 4 times as long to send as 1200 baud on VHF, use a longer FRACK value.  
**TXD** (Transmitter Delay): HF rigs take longer to stabilize on transmit. Also the receiver AGC circuit must respond. Set TXD a bit more than you may think necessary. It helps in the long run.

3) Change other TNC parameters:  
**PACLEN**: PACKet LENGth should be shortened to no more than about 60 characters, or less when conditions are bad. The longer the packet, the more likely a "hit" (error).  
**MAXFRAME** (max # of packets enroute at any one time): Should be reduced from 4 (typically) on VHF to 1 or 2, unless the path is especially good.

4) Read your manual until you understand how the TNC parameters affect on-the-air operation.

These recommendations are for normal QSO-type contacts. For file transfers, bulletin boards, etc., some parameters should be changed.

## THE



## FORUM

**AN OPEN LETTER TO MY FELLOW HAMS**  
from our PR Chairman

I am certain that you have heard it previously, and at the risk of repetition, here it is again.

Ours is a proud tradition of experimentation, help to our fellow man through use of our expertise in emergency situations, and contributions to society just through the fascination of the world of electronics to us.

You know it -- I know it! But our fellow man out there in the hinterlands doesn't know it until he needs our expertise -- experimentation and communications -- in time of dire stress and emergency. Hence, public relations (PR) (INFORMATION) is of vast importance. But how do you sell bomb shelters in a time of peace? The answer is that you don't! But through keeping our image (INFORMATION) before the public as hobbyists, our dedication and preparedness to emergency situations, our love of the fascinating world of current, voltage, mountain-top repeaters, bits and bytes, schematics, DX, sporadic E, ducting, the microcosm of another dimension, we can and will keep our image before the public.

BUT, I need your help! My plan is to offer, on a monthly basis, stories to our various media in the area and through national publications. Where do those stories come from? They come from you, because there is an old adage in the newspaper business that "names make news", and with 165 strong of you out there, we should have enough grist for the feature mills of the newspapers and electronic media for times to come.

How can you help? Ordinary hamming is curious enough for the average reader. It does have interest, but it has been publicised as straight hamming in the past. I want more than that! I want the things you do with hamming that have a curious and interesting twist. A new angle! Something different!

Experimentation! New gimmiks! New angles to old devices! New twists! Different types of contacts! Interesting contacts! Different interests in sunspot activity! Weather! Weather satellites! If it is interesting to you, it would most certainly be interesting to the public. If it has only the normal amount of interest for you, it still will be interesting to the public.

Are you interested in the old, antique types of radios? Any other interesting hobbies such as rug weaving, weaving & dying, collecting old bottles, buttons, etc. All these can be used as "news-hooks" to get and keep your name and the club's name before the reading public. Not only that, it will give us an avenue to the newspapers and electronic media that will be labelled "reliable, trustworthy and NEWSWORTHY", and we will become even further, an organization that the media will turn to in times of stress, need and emergency. They even may find us a fund of technical knowledge that is not found elsewhere.

BUT IT IS ALL UP TO YOU!

(next page)

How do we accomplish it? You give me the information, and I'll translate it into stories that will be acceptable for the press! Kathy has done a bang-up job, and she is a tough act to follow. We (you and I) owe her a deep debt of gratitude for her time and effort, none of which can be adequately repaid. Thanks, Kathy, our heartfelt thanks!

If there are photographers among you (and who ever heard of a ham who is not a photographer) I would appreciate the help for stills for the printed media. [Ed note: and for Short Skip!] Further, and I could use much, much advice in this area, why not develop a film clip library that the electronic media could use, when needed?

We will attempt to break into the national ham magazines also, but remember, in times of emergency, man-made or natural disasters, we will be the people the national media will look to for information for national coverage and local press for local coverage.

The hobby has vast possibilities! Not half-vast but vast possibilities, and it will keep me busy at the word processor night after night feeding the info to mags like QST, World Radio, ARRL SCM, Ham Radio and so forth all with the thoughts in mind, and these are crucial thoughts, of (1) how we benefit society, (2) our contributions to society through experimentation, (3) our help to society in emergencies, and (4) the intrinsic values to society of our hobby. These are all inter-related, but yet different.

Thanks, people, for your help and don't "downplay" the importance of your singular contribution or effort. It all fits together nicely.

Take some time and write out your contributions to society, your gimmicks, your experimentation, your whatever. Names make news, and you are those names!

If you have any other ideas, or if I have engendered some ideas within you, please contact me:

Hayes Hunter WB6KLU  
6859 Eagle Ridge Road  
Penngrove, CA 94951  
Telephone: 795-5938

Incidentally, women are big news these days, so let's hear from some of you YL's and XYL's.

Remember! A different twist! An unusual angle! Novel approach!

With your help, we can place this club in the National forefront of Amateur Radio. Let them look to us instead of us to them!

TNX! AR



**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.]

QST QST QST. 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 [E.O.C., LOCATED IN THE COUNTY ADMINISTRATION COMPLEX]. (or after Jan. 1987): [PUBLIC HEALTH ROTUNDA ROOM NEAR COMMUNITY HOSPITAL, SANTA ROSA].

DOES ANYONE HAVE ANY ANNOUNCEMENTS FOR THE NET? (pause)  
DO WE HAVE A WESTLINK BROADCAST TONIGHT? (WD6CKP)

-----  
ROLL CALL FOLLOWS. IF YOU HAVE NOT CHECKED IN FOR TWO WEEKS IN A ROW, YOU WILL NOT BE CALLED. HOWEVER, IF YOU ARE A MEMBER AND CHECK IN AT THE END OF ROLL CALL, YOU WILL BE ADDED BACK ONTO THE LIST. PLEASE GIVE YOUR QTH AS YOU CHECK IN AND INDICATE WHETHER YOU HAVE ANY SELL, SWAP, OR WANT ITEMS FOR SWAP SHOP AT THE END OF THE NET.

(Go through roll call, calling only members who have checked in at least once during the last 2 sessions. Acknowledge each station as they check in. No need to let the squelch drop after each check-in as the timer doesn't reset for about 2 minutes.)

ANY LATE OR MISSED MEMBER STATIONS ONLY, PLEASE CHECK IN NOW.

(pause... Be sure to add these to the roll call list for next week.)

ARE THERE ANY GUEST STATIONS THAT WOULD LIKE TO CHECK IN AT THIS TIME?

(pause)

ARE THERE ANY OTHER COMMUNICATIONS FOR THE NET?

(pause... )

HANK W6DTV WILL NOW CONDUCT THE SWAP SHOP. (if there is one)

THANK YOU FOR CHECKING INTO THIS SESSION OF THE "SCARS" 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. There are no early or proxy check-ins.
3. Any new members not on the list should be penciled in.
4. 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.



## NEWS of Amateur Radio

A NEW ARRL VIDEOTAPE is to go into production in early 1987. Called "The New World of Amateur Radio", it will replace the popular "World of Amateur Radio". Send suggestions or material to Bill Pasternak WA6ITF, TNWOAR, 28197 Robin Av, Saugus, CA 91350. (ARRL)

**COORDINATION TERRORISM.** Due to the refusal of the 3 Southern California repeater councils (TASMA, 220-SMA, and SCRRBA) to sanction "pirate" repeaters, machines owned by council officers have been suffering a spate of selective jamming. In the case of Karl Pagel N6BVU, who owns no repeater, the harassment has taken the form of over 100 magazines and pieces of junk mail arriving at his PO box each day. Then some costly COD's began to arrive: \$1250 for computer boards, and a phone call from a ham dealer to confirm his credit-card order of over \$20,000. The postal inspectors have brought in the FBI to investigate possible wiretapping violations. If the perpetrators have hacked into private data bases, the "phone freaks" are looking at up to a \$500,000 fine and 5 years in federal prison for each count. (Westlink)

Thanks to the ARRL Letter and Westlink Report for permission to reprint.

### WEST COAST CODE PRACTICE

W6QIE every night except Mondays.  
Each session goes from 5 to 30 wpm.  
3590 kHz 2000 (local time)

K6RAU starts a new code course the first Monday of each month:  
3760 kHz (LSB) 0630-0700 (local)

Tnx KB6ZV ARRL Director's Newsletter

### EVENTS CALENDAR:

(Dont forget SCARS net every Tuesday at 7:00 PM on 146.13/73)

#### JANUARY:

- 1 - Straight Key night
- 5 - RACES etc. Net, 7:30 PM
- 7 - SCRA meeting 7:30 PM
- 10-12 - ARRL VHF Sweepstakes
- 15 - CDF/VIP Meeting 7:30 PM
- 19 - RACES etc. Net, 7:30 PM
- 23-25 - CQWW 160M Test
- 24 to - Novice Roundup
- Feb 1

#### FEBRUARY:

- 4 - SCRA meeting 7:30 PM
- 21-22 - ARRL DX Contest (CW)

#### MARCH:

- 7-8 - ARRL DX Contest (Phone)
- 4 - SCRA meeting 7:30 PM
- 1986 DUES PAYABLE!

#### JUNE:

- 27-28 - Field Day

#### SEPTEMBER:

- 19 - SCRA Flea Market

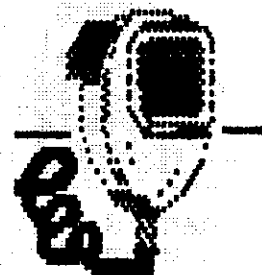
VE EXAMS HOTLINE NR: 408-984-8353







# H.S.C.

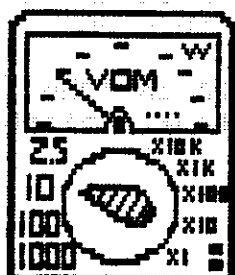


## ELECTRONIC SUPPLY

6819 SOUTH SANTA ROSA AVENUE - COTATI  
792-2277

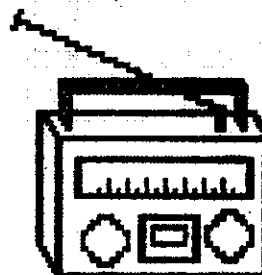
ONE BLOCK SOUTH OF NEW K-MART IN ROHNERT PARK

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
ALINCO	2 Meter Hand-helds and Mobile rigs	
COM-SPEC	Touch-Tone Encoders	
REGENCY/BEARCAT	Scanners	



CONSIGNMENT NOW TAKEN  
ON AMATEUR RADIO GEAR!

PHONE IN YOUR ORDERS,  
DELIVERY BY NEXT-DAY UPS!

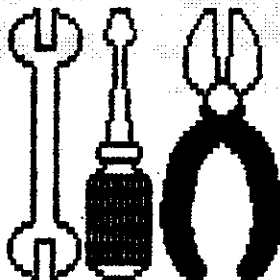


### WE STOCK THE MAJOR PRODUCTS & BRANDS

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!





----- **HANK'S SWAP SHOP** -----

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

18AVT HY-GAIN Vertical, 80-10 M with  
radials \$55. WA6QCL 894-4148.

SIG GEN, Heath IG-102 \$40.  
Solid-state VOM, Heath IM25 \$25.  
SCOPE, DeVry, Home-built \$10.  
2 MIKES: Turner and Realistic \$25.  
ANT PANEL with Switch, Johnson  
Low-Pass filter, SWR meter \$25.  
VIBROPLEX \$20.  
W6KKF Norvell 762-2847.

HAVE: 2 HT's. NEED: 2 meter amp in  
30/40W range. N6GN Glenn 544-3595

WANT: KENWOOD TS-830 transceiver.  
Lyle WW6F, 526-3233.

KLM FORCE 5, 80/10M SSB, 100 Watt,  
Readout, 12V DC in. WA4DUT Steve.

KENWOOD TS-820, ROBOT 400 & 800 and  
B/W MONITOR. \$1500 for all.  
N6JLP Bill. 823-5652

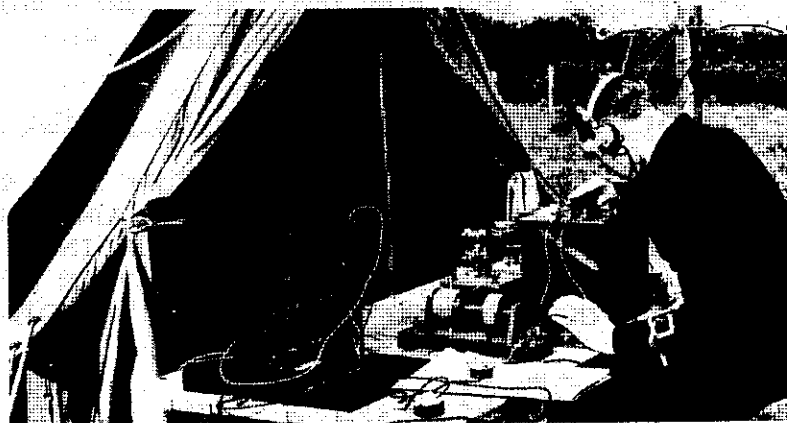
WANT: Ham-band crystals in FT-243  
holders. WB6TMY 527-8124.

-----  
**QUOTE OF THE MONTH**

It may be disenchanting to some  
to learn that the power of the  
written word is highly overrated,  
and the pen just ain't necessarily  
mightier than the sword. Try  
writing notes to someone who is  
preparing to punch you in the nose,  
if you want to check this out.

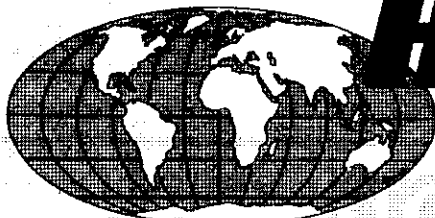
-- Jim Pfeiffer WA5CKJ in "The  
Adventures of an Amateur Publisher"

**FIELD DAY, WWI STYLE:**



**1915** Mobile radio set in use during war.

WORLDWIDE DISTRIBUTION



# HAM RADIO OUTLET

LARGEST HAM OUTLET IN THE WORLD

**NEW ATLANTA STORE!**  
EASY SERVICE FOR  
OUR EASTERN CUSTOMERS

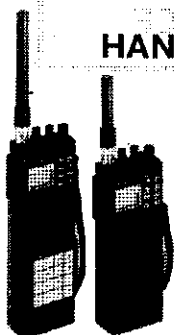
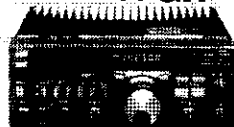
## 7 STORE BUYING POWER

**YAESU****MINI  
HAND-HELD****FT-23R**

2 METER

**FT-73R**

440 MHz

**NEW****GREAT PRICE!****YAESU****FT 757GX**

Compact HF Mobile Transceiver

**CALL FOR PRICE****YAESU****HANDHELD****FT 209RH**

5 WATT 2M/HT



**CALL  
NOW  
FOR  
LOW  
PRICE**

**YAESU****FT-727R**

5 WATT

2M/440 MHz

Dual Band

**NEW****CALL FOR PRICE**

**FREE SHIPMENT**  
MOST ITEMS UPS SURFACE

**NOW! RAPID DELIVERIES  
FROM OUR OUTLETS**

**COAST  
TO COAST**

To Our Customers

**YAESU****FT 2700RH**

Full Duplex FM 2M/70cm

**CALL FOR PRICE****YAESU****FT 726R**

Great for OSCAR 10 and VHF DXing

**YOUR BEST BUY!**

**WE SHIP DIRECT TO YOU  
FROM ANY ONE OF OUR  
NATIONWIDE OUTLETS.**

**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 &  
Knotts Berry Farm

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

**NEW**

**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, 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**  
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