



HANK'S SWAP SHOP

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

WANT: KLM rotatable 40 M dipole, YEASU
FV901DM VFO, FV901R (2,6,440 modules),
YO901 scope. Don KD6HQ 546-1217.

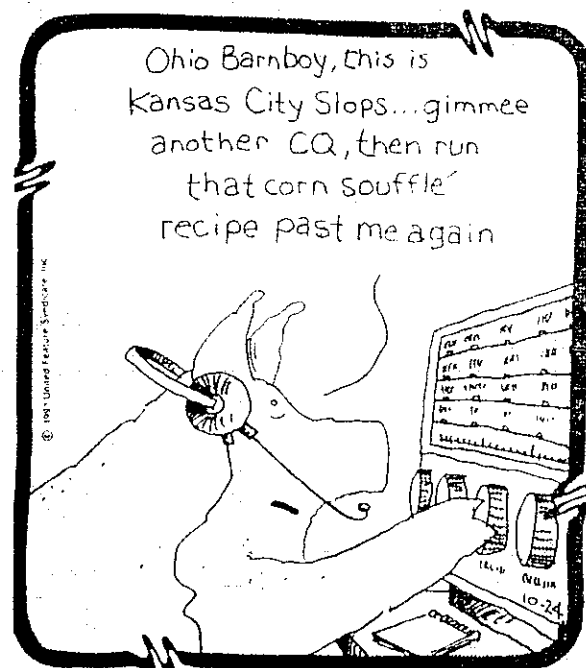
HEATHKIT power supply for 101. Kelly
KD6CJQ 527-1531.

TRS-80 sale, printer, disk drive, manuals,
books, software. Trade for 10 meters and
above. Phil N6KZS 526-0939.

26-3814 TANDY port disk model 102-200.
Leslie 539-6058.

DRAKE L75 amp, 80-15, spare final \$400.
Don WA6ACX 459-3980.

OFF THE LEASH W. B. Park



Ham operator.

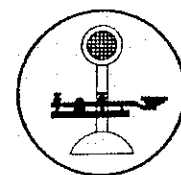
THE PRESS DEMOCRAT, THURSDAY, OCTOBER 24, 1991

DATED MATERIAL:
PLEASE DO NOT DELAY

JOHN BRECKENRIDGE
WB6FRZ
574 WILD OAK DR
WINDSOR CA 95492

ADDRESS CORRECTION REQUESTED

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



SHORT SKIP



Sonoma County Radio Amateurs, Inc.

Club Station
FEBRUARY 1992 W6LFJ

P.O. Box 116
Santa Rosa, CA 95402

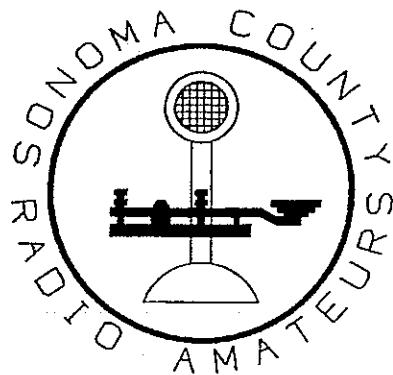
Repeater Station
WB6PVS VOL 17 #2

BOB WD6DPE MADE SANTA ROSA CITY CALENDAR COVER!

Over 400 Sonoma
County Ham
Operators share
their skills and
equipment
volunteering their
time during
disasters and
community events.



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OFFICERS FOR 1992			
PRESIDENT:	Merlyn Pfeiff	N6VUC	584-3898
VICE PRESIDENT:	Rick Reiner	K6ZWB	542-6907
SECRETARY:	Alan Bloom	N1AL	538-7115
TREASURER:	John Gauger	KK6XT	829-2599
MEMBERS-AT-LARGE:	Bill Splaine	N6GHG	431-8636
	Gary Gouger	KC6WTE	575-9119
REPEATER CHAIRMAN:	Jim Rutherford	WB6PER	526-2972
ACTIVITIES CHR:	Jim Pelmulder	N6PTM	823-7947
SHORT SKIP STAFF:			
EDITOR:	Alan Bloom	N1AL (e)	538-7115
1578 Los Alamos Rd, Santa Rosa, CA 95409 (d) 577-3981			
CIRCULATION MGR:	Bill Splaine	N6GHG	
SWAP SHOP:	Hank Davis	W6DTV	823-7885

ARRL Liaison: Alan Bloom N1AL 538-7115
 Ast. Director: Chuck Sabin N6DDK 795-2371
 Badge Chair: Connie Williams N6FYV

Activities Committee:

Pub. Service:

QSL Mgr: Bill Splaine N6GHG 833-1873
 TVI/RFI: Al Bloom N1AL 538-7115
 Awards: Steve Lund WA8LLY 823-4544
 VEC Exams: Steve Lund WA8LLY 823-4544

Education: J Breckenridge WB6FRZ 838-6398
 N1AL KC6RHA KC6RHB KC7VS
 KK6VY KF6WV K6XZ K6ZWB

Refreshmnts at meetings: Bob Olsten WD6DPE
 Greeter at Meetings: Jane Vanderslice N6NTB
 Raffle at meetings: Phil Richardson WA6SEU
 Membership lottery: Walt Burandt KC6RHB
 Club Flyer: Gary Gouger KC6WTE

Repeater Control Op's:

WB6PER Jim 526-2972 N6PTM Jim 823-7947
 WD6CKP Hoppy 542-6750 W6TLK John 833-1873
 N6VUC Merlyn 584-3898

SHORT SKIP ADVERTISING RATES:

Business cards: \$10

\$11 First 1/4 Column
 \$3 Additional 1/4 Columns
 (\$32 Full Page, 1 side)

Pre-printed inserts: \$32/sheet

Guaranteed circulation: 200/month
 AD DEADLINE: 10th of previous month

ARE YOU NOT AN SCRA MEMBER?

If so, then this is a complimentary copy. Our club is involved with almost every area of Amateur Radio: Repeaters (13/73), Field Day, license classes (Novice through Extra), 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 Tuesday night SCARS net on the 146.13/73 repeater at 7PM. You will hear the latest Amateur Radio Newline broadcasts, announcements of SCRA activities and a Swap Shop. If you would like to join SCRA, please refer to the dues listed below. Hope we can have an "eyeball" QSO with you at the next meeting! 73 ...

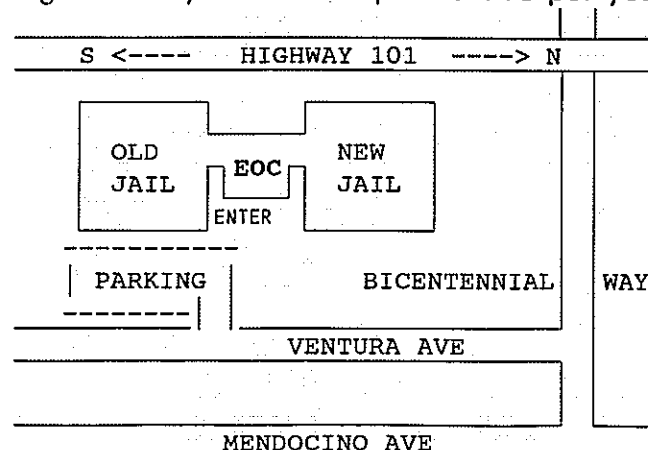
Club Meetings:

7:30 PM, 1st Wednesday each month at the EOC (Emergency Operations Center). Anyone interested in Amateur Radio is welcome.

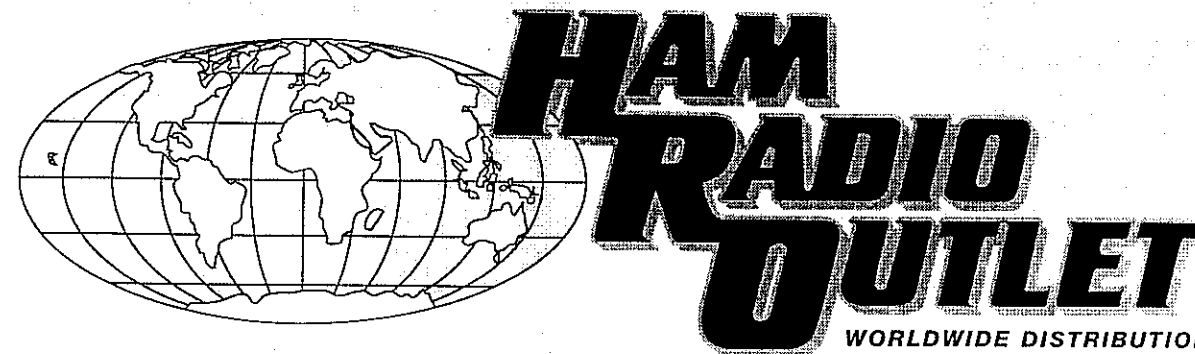
NEXT MEETING: February 5, 1992

Program: Group discussion: Grey areas in the Amateur Rules, moderated by WB6PER

DUES: \$12 per year, plus a one-time \$4.00 initiation fee. Dues are pro-rated \$1/month for new members who get an SCRA call/name badge. Family memberships are \$18 per year.



— 11 STORE BUYING POWER —



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 (800) 854-6046

OAKLAND, CA 94606
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 (800) 854-6046

Phone Hours: 9:30 AM to 5:30 PM
 Store Walk-In Hours:
 10:00 AM to 5:30 PM Closed Sundays

NEW ADDRESS:

ANAHEIM, CA 92801
 933 N. Euclid St.
 (714) 533-7373
 (800) 854-6046
 Jim Rafferty, N6RJ, V.P.
 Near Disneyland

OAKLAND, CA 94606
 2210 Livingston St.
 (510) 534-5757
 (800) 854-6046
 Rich, WA9WYB, Mgr.
 I-880 at 23rd Ave. ramp

SAN DIEGO, CA 92123
 5375 Kearny Villa Rd
 (619) 560-4900
 (800) 854-6046
 Tom, KM6K, Mgr.
 Hwy. 163 &
 Claremont Mesa

NEW ADDRESS:

SUNNYVALE, CA 94086
 510 Lawrence Expwy. #102
 (408) 736-9496
 (800) 854-6046
 Tom, KB6LUC, Mgr.
 Lawrence Expwy.
 So. from Hwy 101

VAN NUYS, CA 91411
 6265 Sepulveda Blvd.
 (818) 988-2212
 (800) 854-6046
 Jon, KB6ZBI, Mgr.
 San Diego Fwy
 at Victory Blvd.

Bob Ferrero W6RJ
 President/Owner
 Jim Rafferty N6RJ
 Vice President

NEW STORE:

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 Earl, KE7OA, Mgr.
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 from Hwy. 5 & 217

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 (800) 444-9476
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 1702 W. Camelback Rd.
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 (800) 444-9476
 Gary, WB7SLY, Mgr.
 East of Highway 17

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 6071 Buford Highway
 (404) 263-0700
 (800) 444-7927
 Mark, KJ4VO, Mgr.
 Doraville, 1 mi.
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 (703) 643-1063
 (800) 444-4799
 Curtis, WB4KZL, Mgr.
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 Jim, K3QIO, Mgr.
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AZ, CA, CO, GA, VA residents add sales tax.
 Prices, specifications, descriptions, subject
 to change without notice.

ALINCO

DJ-160T

2 Meter Deluxe HT
 20 Mem Channels
 5W Optional Battery
 Encode Built-in
 DTMF Auto-Dialer
 Built-in DSQ
 (DTMF) Paging
 REG. 369.00
SALE \$249.95

YAESU

HANDHELDS

FT-26/FT-76
 2 Mtr. 440 Mhz
 2w std., 5w optional
 Direct DC input
 Built-in VOX/53 Mem
 DTMF paging
 Selectable power levels
FT-411
 2M HT
 Standard 2.5W; 49 Mem
 2m/140 to 174 Mhz
 EXTENDED RECEIVE

KENWOOD

TS-850

HF Transceiver



Advanced Technology Performance
 108 db Dynamic Range, Optional DSP
CALL FOR LOW PRICE

ICOM

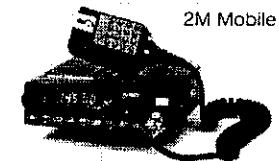
HANDHELDS

IC-2GAT
 2 Meter HT • 7 Watt
IC-4GAT
 440 MHz • 5 Watt
IC-W2A
 Deluxe Duo-Band
 Wide RX Band HT
IC-2SAT, 2 Meter
IC-3SAT, 220 Mhz
IC-4SAT, 440 Mhz
IC-24AT, Duo Band
IC-2SRA, 2M + Wide Rx

ALINCO

DR-110T

2M Mobile



GREAT FOR PACKET

2M FM Transceiver • Great Performance
 45 Watts • CAP+MARS Modifiable
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FT-990



100W HF Gen Cov Transceiver
 DDS, QSK • 500Hz CW Filter included
CALL FOR LOW PRICE

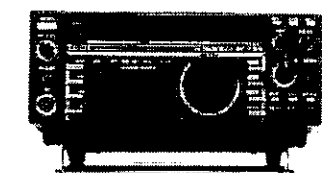
KENWOOD

HANDHELDS

TH-225A
 2 MTRS/5W
TH-315A
 220MHz/2.5 W
CALL FOR GREAT PRICES

ICOM

IC-735



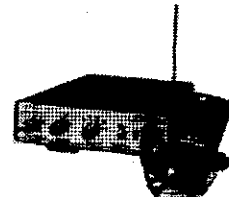
100W 12 volt • 12 channel memory
 General Coverage • IF Notch & QSK
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GOODIES FOR THE RADIO AMATEUR:

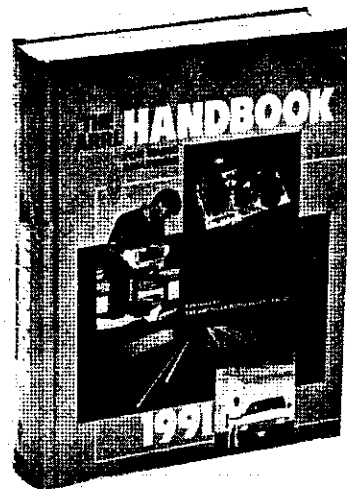
RAMSEY KITS:

- 2 Meter Synthesized FM Transceiver
- 2 Meter 30 Watt Amplifier
- All-mode HF receivers
- QRP CW Transmitters
- Etc...



ARRL BOOKS:

- ARRL Handbook
- License Manuals
- Antenna Books
- Etc...



POPULAR BRANDS:

- MFJ
- Ameco
- Larsen
- Antenna Specialists
- Sangean
- Etc...

NECESSITIES:

- Code keys
- Wire Antennas
- Surplus Electronics
- Tools, parts, Etc...

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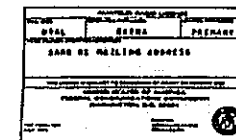
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George Shedore
Manager
KS6W

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COTATI, CA 94931

PHONE: (707) 792-2277
FAX: (707) 792-0146



UPGRADE EXAM RESULTS

by Steve Lund WA8LLY

On 07 January, 29 candidates took 69 exam elements at the latest SCRA ARRL-VEC exam session held at the EOC. 22 either obtained new licenses or upgraded and 3 others obtained element credit.

New Novices licensees are: David Griffin, Sandra Moritz, and Vurl Trytten.

New no-code Technician licensees are: Jim Hoyle, John Mercer, Doug Rich, Darlene LaMont, David Nelson, Myron Randall, Henry Sieck, Darren Schivo, Roger McAleenan, David Blackham, Jim Robinson, and Paul Siebert.

Showing that code is not dead, the following earned the Technician license with HF privileges: Mike Britt, Bob Wolcott, Martin Gibbs KC6HPQ, Ken Williamson, and Mike Dranginis KC6SSE.

Mark Walsh KC6RKZ, and Arnold Williams both earned the General license.

The volunteer examiners for this session were Jon KK6WS, Ken K6UXO, John KK6XT, John WB6FRZ, Al N1AL, and Steve WA8LLY.

NEXT EXAM SESSION

The next exam session will be at the completion of Al and John's licensing classes. There are several methods to find out when the session will be held. A notice will always be posted at HSC Electronics in Cotati. The next best way is to send a business size SASE to Steve Lund WA8LLY, PO Box 476, Graton, CA 95444. As soon as the date/time are determined, I'll send you a flyer in the SASE. The worst method is to call me at home.

8 DOLLARS OR 10 CENTS?

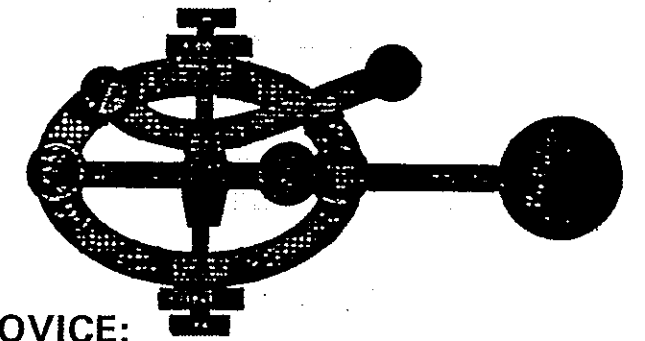
Here's a way to add 3 dB to your HT signal for \$7.95. Or you can build one per Reed N6ZME's article in December *Short Skip* for 10 cents!

AMATEUR RADIO CLASSES

Co-sponsored by:

- * Calif. Spinal Cord Injury Network
- * Sonoma County Radio Amateurs

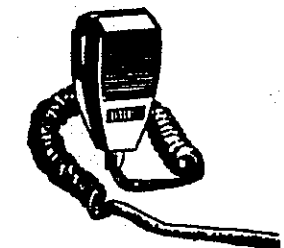
Location: 3911 Princeton Drive, Santa Rosa (corner of Yulupa and Princeton)



NOVICE:

Dates/Times: Fridays, beginning 2/14/92, 6:30-8:15 PM. Runs 14 weeks, with exam given sooner if you're ready.

Instructor: John Breckenridge WB6FRZ 838-6398.



GENERAL:

Dates/Times: Mondays, beginning 2/10/92, 7:30 PM. Runs until about June 1.

Instructor: Jeff Moritz KC7VS (home) 584-3610, (work) 577-3577.

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Public Service

by Bill Splaine N6GHG

SCRAPS - the Sonoma County Radio Amateurs Public Service volunteers have been very busy since I last published the names and hours of the volunteers. We hammed it up in five events for a total of 435 Operator Hours, including my hours, most of which were organizational. These community minded amateurs were:

PETALUMA AIR SHOW 95 HRS

Bob K6GEV
Bill N6GHG
John KK6XT
Aaron KC6URO
Jim N6PTM
Bob KC6SOT
Reed N6ZME
Ron KC6PEY
John AL7IN

WAVES TO WINE 188 HRS

Marie KI6QY
Don W6CPE
Bob K6GEV
Nadine KC6WUI
Phil N6OOA
Ron KM6BH
Bob N6RMW
Wilbur N6MGY
Hoppy WD6CKP
Kathy KC6UXJ
Rudy N6KLU
Ken N6GXI
Georgia N6GZU
Brian N6IY
Frank KC6WUG
Tom KC6ZJX
John W6TLK
Dave AA6YX
Bill N6GHG

CLO'S BIKE-A-THON 22 HRS

Hank W6DTV
Sarah N6FAX
Bob K6GEV
Bill N6GHG

H'WINE BIKE RIDE 130 HRS

Merlyn N6VUC
Don W6CPE
Bob K6GEV
Jud N6QAV
Don KD6HQ
Wilbur N6MGY
Kathy KC6UXJ
Bill WA6OLW
Phil N6OOA
John W6TLK
Brian KC6REK
Rick N6RXA
Jack N6UYB
Ken N6MHG
Steve KC6NEO

NOTE: The Petaluma Air Show list only shows the hours worked by SCRA members. Other hams in the show include:

Joe AA0BV
John WD6FEQ
Randy AA6GV
Rick KB6IDK
Ken WB6NOV
Bob WA6OOI
Dale WB6TMS



SCRAPS volunteers have also been very busy during the past few weeks. We have participated in six events for a total of 290 OpHrs. They were:

MULTIPLE SCLEROSIS SOCIETY SUPER CITIES WALK

Hank W6DTV 6
Sarah N6FAX 6
Hoppy WD6CKP 6
Wilbur N6MGY 6
Bill N6GHG 10
Total Hours: 34

GREENSPACE ALLIANCE RIDE

Bob N6RMW 9
Phil N6OOA 9
Bill N6GHG 12
Total Hours: 30

MARCH OF DIMES WALK AMERICA

Hank W6DTV 5
Sarah N6FAX 5
Rick N6RXA 5
Bob K6GEV 5
Harvey K6KZ 5
Ruth WA6AQA 5
Hans KI6PD 5
Chuck N6DDK 5
Total Hours: 49

LIONS CLUB OF COD DINGTOWN RUN-FOR-SIGHT BIATH-A-LION

Hoppy WD6CKP 4
Betty AG6C 4
Wilbur N6MGY 4
Bob WB6EKV 4
Phil KC6BSI 4
Bill N6GHG 2
Total Hours: 22

SPECIAL OLYMPICS

Connie N6FYV 5
Bob WB6EKV 5
Bob K6GEV 5
Phil KC6BSI 5
John W6TLK 5
Bill N6GHG 2
Total Hours: 27

RUN THRU THE REDWOODS

Brian N6IY 3
Lou N6YMQ 3
Bill WA6OLW 3
Bob K6GEV 3
Bill N6GHG 2
Total Hours: 14

WINE COUNTRY CENTURY SANTA ROSA CYCLING CLUB

Marie KI6QY 6
Ken N6MHG 6
Bob N6RMW 8
Betty AG6C 8
Rudy N6KLU 8
Georgia N6GZU 5
Rick N6RXA 8
Dave AA6YX 8
Hoppy WD6CKP 8
Phil N6OOA 8
Hans KI6PD 8
Ken N6GXI 5
Cal KI6NY 5
Don W6CPE 5
Wilbur N6MGY 4
Bill N6GHG 14
Total Hours: 114

From *Radio Communication*, journal of the Radio Soc. of Great Britain in Pat Hawker G3VA's *Technical Topics* column:

"In the February 1985 issue of *Funk* I presented a concept for home-brewing a 144MHz end-fed half-wave antenna with an LC matching section in a small plastic box, a telescopic antenna of rather random length (80cm to 133cm) and a flange BNC plug (or similar): Fig 1. The trimmers were 7pF air-dielectric made by Tronser. Starting values for the coil are 5 turns, inner diameter 5mm, total length 8mm. The coil may be varied if the setting of capacitor C2 is at an extreme end (when the section is being aligned using a VHF SWR meter). The plastic box is superior to a metal box in two aspects: it is easier to isolate the telescopic antenna; and there is no difference in tuning with the box open or closed.

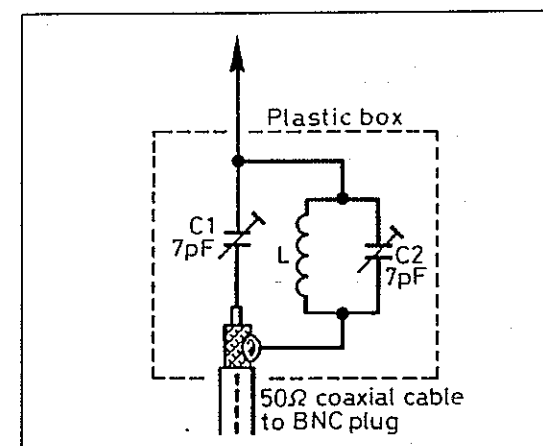
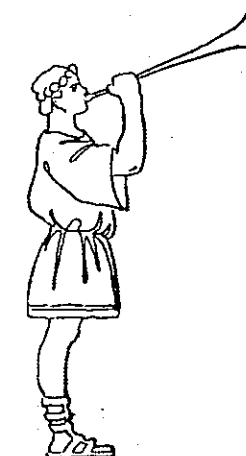


Fig 1. DJ1ZB's end-fed 144MHz antenna using a telescopic rod (80cm to 133cm) with matching network enclosed in plastic box (57mm x 28mm x 28mm). When the box is fitted with a flange-type BNC plug the antenna can be plugged directly into a hand-held transceiver or mounted separately and connected to the transceiver by length of 50Ω low-loss cable.

"Simple comparisons between a rubber duck and this telescopic antenna were conducted from the flat roof of a city building in Munich. With the rubber duck and 2.5W, the Austrian repeaters OE2XSL and OE7XKI could just be opened, but the German repeater DB0XF north of Munich could not be opened. With the telescopic antenna, all three repeaters could be opened easily with the low power option of 0.3W of this hand-held, indicating an improvement of at least (10log 2.5/0.3) equal to 9dB.



COMING EVENTS:

SCARS NET: 146.73 MHz
Tuesdays at 7 PM.

VE EXAMS HOTLINE NR:
408-984-8353

LARK Fleamart 1st Sunday,
Livermore 510-462-5055

FEBRUARY:

- Jan 25-Feb 2 - ARRL Novice Roundup
- 1-2 - 10-10 Net 10-meter Phone QSO Party
- 2 - LARK Flea Mart, Livermore WU7R
- 3 - RACES etc. Net 7:30 PM
- 5 - SCRA meeting 7/7:30 PM
- 10-14 - ARRL School Club Roundup
- 10 - General class starts KC7VS 584-3610
- 14 - Novice class starts WB6FRZ 838-6398
- 14 - Deadline for March *Short Skip*
- 15-16 - ARRL DX Contest, CW
- 17 - RACES etc. Net 7:30 PM
- 20 - CDF/VIP Meeting 7:30 PM
- 21 - W1AW code proficiency qualifying run (Samuel F. B. Morse certificate)
- 21-23 - CQ Worldwide 160 M Contest, Phone

MARCH:

- 4 - SCRA meeting 7/7:30 PM
- 1992 DUES PAYABLE!
- 7-8 - ARRL DX Contest, Phone
- 13 - Deadline for April *Short Skip*
- 14 - First Foothill College Flea Market
- 20 - W1AW code proficiency qualifying run (Samuel F. B. Morse certificate)
- 28-29 - CQ Worldwide Prefix Contest, Phone

APRIL:

- 10-12 - International DX Convention, Visalia
- 24-26 - Dayton Hamvention

Jim Peimulder
N6PTM

(707) 823-7947

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(MINUTES, continued from previous page)

The PROGRAM was a very interesting video on antennas. A college professor had built dozens of 3 GHz antennas. He then mounted each one over a portable ground plane and measured the radiation pattern, takeoff angle and polarization with an audible detector.

K6GEV's last MEMBERSHIP LOTTERY had \$10.70 in the kitty. As winner was not present, the money rolls over to next month.

The meeting was adjourned at 9:23 PM. m/s N6PTM/WA6ACX. Respectfully submitted, Al Bloom N1AL, Secretary.

TREASURER'S REPORT

For month ending October 31, 1991

ACCOUNT	REVENUE	EXPENSE
Dues and Initiations	34.00	
Misc	90.00	247.21
Short Skip Newsletter	64.00	
Flea Market	152.00	
	340.00	247.21

ASSETS:

General Fund Account	3439.25
Cash/checks on hand	77.81
Total General Fund	3517.06
Total Repeater Fund	755.43

- de KK6XT

RCA/GE • Zenith • NAP • Channel Master

ARDCO ELECTRONICS SUPPLY

950 Piner Rd
Santa Rosa, CA 95403

STEVE BASHAM
Manager

(707) 527-6000
(800) 675-7557

1992 SCRA BUDGET

(By vote of Board of Directors 1/14/92)

Christmas Party	-250.00
Field Day/Picnic	-450.00
Misc. Activities	-100.00
Total Activities	-800.00
Refreshments	-60.00
Dues	2200.00
Badges	-200.00
Repeater	-750.00
Flea Market	800.00
ARRL Memberships	40.00
Fund Raisers	840.00
Raffle	400.00
Insurance	-310.00
Trophies and awards	-200.00
Donations	-500.00
Total Misc	-700.00
Short Skip ads	500.00
Short Skip expenses	-1245.00
Short Skip total	-745.00
Phone charges	-100.00
Donations	-100.00
Total Newslines	-200.00
QSL Cards	-200.00
Other	75.00
Total Member Supplies	-125.00
Officers' expenses	-100.00
Training & education	-150.00
Total	-700.00

Why do computer programmers have trouble distinguishing Christmas from Halloween?

Because 31 oct = 25 dec.

(If you get the joke, you must be a programmer.) Tnx ARNS Bulletin.

From the Pacific Bell Pioneer Radio Club newsletter. Tnx Ren AA6UY

MARCONI "SOLID STATE" UNIVERSAL RECEIVER. (Circa 1917)

The complete adjustment of this Tuner is as follows: Set the primary condenser switch to position "Out". Place coupling pointer at about 7 on the scale, detector switch to "Carusite", secondary condenser pointer to position "Out", potentiometer to 0, "send" and "receive" to "receive" (if used with Navy switch or break system relay, leave in "send" position always), turn test switch to "in" position, which starts the buzzer; then adjust Carusite Detector point on crystal surface until loudest response is heard. This crystal requires very light pressure for maximum sensitiveness and the point may be screwed up or down by turning the hard rubber knob to left or right.

Having found a sensitive point in the crystal, vary the inductance of the two primary transformer switches until the desired signal is heard, then loosen the coupling by rotating coupling handle to the right until the signal is just audible, then try other points of transformer secondary secondary switch and rotate secondary condenser handle to the left until a combination is found which gives maximum response.

The primary should then be readjusted more accurately until the best setting is found and the coupling then adjusted until the maximum strength of signal is obtained. The longer the wavelength the greater the number of turns of inductance necessary in primary and secondary circuits. If more inductance is necessary for a particular signal and cannot be obtained by adjustment of transformer primary switch, place this in position marked "Out" until sufficient turns are in the circuit.

If the wavelength of the incoming signal is shorter than can be reached with primary condenser switch in the "Out" position, place it in the series position, set the ten turn transformer primary switch at zero, the unit turn transformer primary switch at 10 and rotate primary condenser handle until maximum response is obtained.

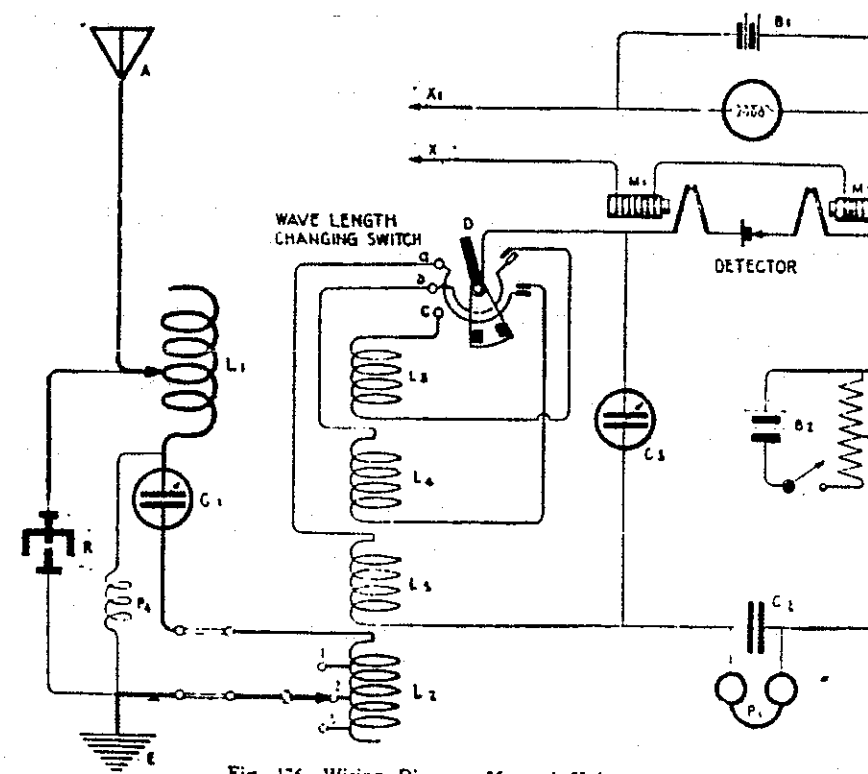


Fig. 176—Wiring Diagram Marconi Universal Receiver.

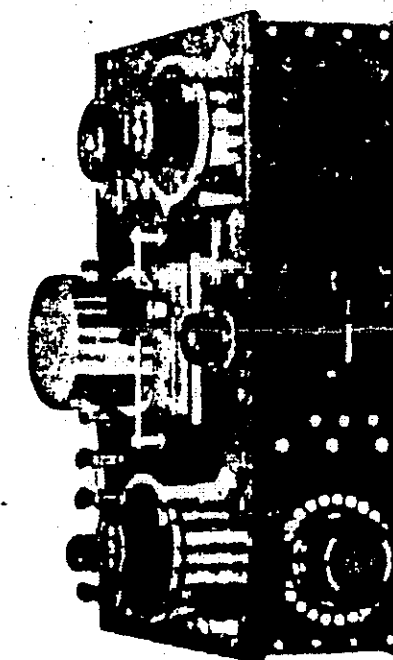


Fig. 177—Universal Crystal Receiver (English Marconi Company).

W6SFW

THAT DREADFUL INTERMOD

by Linda Reeder N7HVF

One of the latest fads in the world of ham radio is the dual bander handheld. There are some great features about them such as monitoring one band while talking on the other. Talking inside of a building on 440 works much better than on 2 meters. I like the idea of it being small and easy to carry around. Unfortunately there is a huge problem with intermod! Manufacturers were so busy putting this neat little package together they overlooked this problem. There is no escape whether it be a Kenwood, Icom, Yaesu or Alinco. I have talked with users of all of them.

Intermod reminds me of the shrill sound of the dentist drill. I even taped it to prove my point. One evening my roommate came out to ask what all the commotion was about.

A good friend won a Yaesu dual-bander at a steak fry. Once he started using it, he found the intermod so bad that he said "forget this" and sold it. An amateur from Salt Lake City was told if he bought the Icom he would not have the problem with intermod. Once it was purchased he discovered he was lead down the wrong path. The intermod was so bad that in disgust he bought a mobile dual-bander which alleviated the problem.

An amateur from California was visiting here recently. he developed car problems and was asking for help. Again, intermod was so bad it was not possible to talk with the ham trying to assist him. He was really frustrated.

In February I got a dual-bander handheld to replace my Kenwood 77A which, by the way, never gave me intermod problems. Folks had tried to talk me out of the purchase, but I did not listen. If I had, maybe today I could monitor in peace. I love the idea of having so much available in one little rig... But oh, that dreadful intermod!

Tnx *Handi-Ham World*

EDITORIAL COMMENT:

When you try to pack 10 pounds of circuitry into a 10 ounce package, something has to be left out. Receiver front-end filters take up lots (over)

of space, especially when they must be designed to cover 144-450 MHz. Many single-band radios with "extended receive coverage" also have this problem, although to a lesser extent. This is supposed to be the advantage of the new Radio Shack HT -- The front end filters only cover the ham band. You can't receive police/fire frequencies on it, but it should do a better job of interference rejection on two meters. - de N1AL ■

METRIC CONVERSIONS

Earl Rogers, President of Precision Monolithics, has uncovered the following useful conversion factors:

10¹² microphones = 1 megaphone
12¹² pins = 1 terrapin
10²¹ piccolos = 1 gigolo
10 rations = 1 decoration
10 millipedes = 1 centipede
3-1/3 tridents = 1 decadent
.5 x 10⁶ bicycles = 1 megacycle
10 monologues = 5 dialogues = 1 decalogue
10⁹ micrometers = 200 pentameters
2 x 10³ millineries = 1 binary = 4 seminaries¹
10⁻⁵ dollars = 1 Millicent
nano-nano = a prefix designating 10¹⁸
1 milli-Helen = the amount of beauty required to lauch 1 ship

¹ *The enlightenment generated by a seminary is measured in luminaries.*

From Society of Technical Comm. *Intercom* via ARNS *Bulletin*. ■

Radio Shack

STORE NO. 3855

ZANE BATES

MANAGER

WB6SRU

510 FARMERS LANE
SANTA ROSA, CA. 95405

TELEPHONE
546-8423

SCRA MINUTES

January 8, 1992



The meeting was called to order by President Merlyn Pfeiff N6VUC at 7:31 PM. Other officers present: Vice President Rick Reiner K6ZWB, Secretary Al Bloom N1AL, Treasurer John Gauger KK6XT, and Member-at-Large Bill Splaine N6GHG.

VISITORS: Jane N6NTB introduced 16 visitors.

Visitors who met with success at last night's test session include new Novice Vurl Trytton, new Technician Myron Randall, and new Generals Mark KC6RKZ and Arnie Williams.

As there was no meeting in December, N1AL's Christmas party writeup in *Short Skip* were approved in lieu of **MINUTES**.

TREASURERS REPORT per KK6XT: \$3517.06 General Fund, \$755.43 Repeater Fund. Approved. m/s N6PTM/WA8LLY

One advantage of being a club officer is you are guaranteed a place to sit.

Our **REPEATER** Chairman is enjoying a bout of the flu while on vacation in Arizona.

PUBLIC SERVICE: We need a Chairman for 1992. N6GHG admits it is a demanding job, but a lot of fun. Bill has already gotten 3 requests for this coming year.

EDUCATION: Our Amateur of the Year, John Breckenridge WB6FRZ is having another Novice class in February.

Steve KK6VY will do another DOS class soon. He can do beginning, advanced or specific applications. A sign-up sheet was passed.

A General upgrade class sign-up sheet was also passed around. Jeff KC7VS, an HP engineer, will teach this one.

N1AL won't be doing another Technician class soon. We could use an instructor.

The next **EXAM SESSION** will be after these classes are over, according to Steve WA8LLY.

BADGES are made for all new members. See Jim N6PTM if you haven't received yours.

ARRL SECTION MANAGER John Wallack W6TLK gave a report. Class instructors registered with ARRL are entitled to bulk discounts on ARRL books.

John and Asst. SM AL7IN will be visiting 6 clubs in Eureka soon. They go to San Francisco in February.

John reminded us that business communications are a strict no-no. For example, a commercial trucker getting directions.

OO: At the recent Pacific Div planning meeting in Livermore John learned that the Official Observer program in our (SF) section can coordinate closely with the local FCC monitoring station. Volunteers for the OO appointment are needed. You must have held a Technician or higher-class license and been an ARRL member for at least two years and pass a take-home open-book exam.

CLUB NET: Kathy KC6UXJ has been Net Control on 2 meters. Replacements are needed. N6FAX volunteered for February, WD6DPE for January, and N6Ily for March.

The 10 meter net meets on 28.450 right after the 2 meter net. Charlie KK6WM and Pete KC6UXM have been running it with KB6PTA as standby. More check-ins are needed.

VOLUNTEERS: After 3 years, Bob K6GEV is giving up his Member Lottery job. Walt KC6RHB agreed to carry the baton.

Phil KC6BSI is also bowing out as Raffle Chairman. The other Phil, WA6SEU, will pick up the job.

EVENTS: We haven't had a mini-DXpedition in several years. Bill N6OLD has expressed an interest. We need some good ideas for places to go.

Pete KC6UXM has roused interest in an SCRA luncheon. Pete will do the organizing.

RAFFLE: No prizes were collected over the holidays, so K6ZWB auctioned off AA6YX's donated radios. The Heath SB101, PS, spkr, speech proc, SWR, LPF, mic, etc. went for \$52.50 and the Eico 720 for \$10.

SCRA AUTO SLOT APPLICATION

Licensed SCRA members are entitled to two autoslots for frequently-called numbers. (May be reduced to one if we run out of slots.) To apply, fill out the form below and mail it to:

Jim Rutherford WB6PER
POB 222
Kenwood, CA 95452

For further information, feel free to call Jim at 526-2972.

IMPORTANT NOTE:

YOU WILL NOT BE CONTACTED BY JIM WITH YOUR SLOT NUMBERS. IT IS YOUR RESPONSIBILITY TO CHECK INTO THE SCRA NET ON TUESDAY NIGHTS AT 1900 (7 PM) ON 146.73 AND REQUEST THE INFORMATION FROM JIM.

=====

YOUR NAME: _____

YOUR CALL: _____

PHONE #1: _____

IS THIS YOUR HOME PHONE? YES NO

PHONE #2: _____

AUTOPATCH CODES

Sonoma Mt. Repeater - 146.73 MHz - WB6PVS

EMERGENCY AUTODIAL - AUTOPATCH - AUTOSLOT
OPERATING INSTRUCTIONS
1/19/92

The Sonoma Mt. Repeater WB6PVS is equipped with an Emergency Autodialer, an Autopatch & a programmable Autoslot dialer.

Use of any of these features, including the emergency autodialer, is limited to members of the Sonoma County Radio Amateurs Inc. Do not discuss these instructions or access codes with anyone, especially on the air. Call a Control Operator by telephone if you need assistance. The names and telephone numbers of Control Operators can be found on page 2 of any issue of *Short Skip*.

Do not attempt to use any of these features unless you have a full-quieting signal into the repeater. Noisy signals cause wrong numbers and may result in your not being able to disconnect from the telephone network.

Always give your call sign before using any of these features. After you have finished, give your call sign and the word "clear".

- A P/L tone of 88.5 Hz is required to
- access any of these features.

EMERGENCY AUTODIAL

TT Code	Emergency Service Agency	Audio Response
9*0	Santa Rosa AAA Road Service	AAA
9*1	911 (Any Emergency)	911
9*2	CHP (Any Highway Emergency)	CHP
9*3	Cloverdale Fire/Police	CLPD
9*4	Santa Rosa Fire/Police	SRPD
9*5	CDF Dispatch	CDF
9*6	Petaluma Fire/Police	PPD
9*7	Sonoma Fire/Police	SNPD
9*8	Sebastopol Fire/Police	SBPD
9*9	Rohnert Park Fire/Police	RPPD

INITIATING EMERGENCY AUTODIAL CALLS:

Example: Announce your call sign, Enter 9*1, all in one transmission. The autodialer will call the 911 dispatcher.

DISCONNECTING EMERGENCY AUTODIALER:

Enter #
Example: Key transceiver, HESITATE, Enter #.

AUTOPATCH

The Autopatch should never be used solely to avoid telephone toll charges or when normal telephone service can be used. Autopatches facilitating the business affairs of any party must not be conducted at any time.

INITIATING AUTOPATCH TELEPHONE CALLS:

The autopatch is now available 24 hours a day. Simply announce your call sign, and Enter 1123 followed by the seven digit telephone number.

Example: Announce your call sign, Enter 11235551212, all in one transmission. The autopatch will dial the number 555-1212.

DISCONNECTING THE AUTOPATCH:

Enter #
Example: Key transceiver, HESITATE, Enter #.

AUTOSLOT DIALER

Your most frequently-used telephone numbers can be programmed into autoslots. Apply for your autoslots by contacting the Repeater Chairman listed on page 2 of *Short Skip* or mail him the enclosed form.

INITIATING AUTOSLOT TELEPHONE CALLS:

Announce your call sign, Enter 1147 followed by the autoslot number.

Example: Announce your call sign, Enter 114719, all in one transmission. The autoslot will dial the telephone number assigned to slot number 19.

DISCONNECTING THE AUTOSLOT:

Enter #
Example: Key transceiver, HESITATE, Enter #.

EMERGENCY AUTOPATCHING

by: Jim Rutherford WB6PER, Repeater Chairman

Any discussion of emergency communications should start by referring to the FCC rule book, part 97.1 "Recognition and enhancement of the value of the Amateur Service ... particularly with respect to providing emergency communications." The rules concerning autopatching specifically state, "calls made concerning highway safety in cases where there is immediate threat to the safety of life or property are permitted."

In an effort to provide the most up-to-date and locally-accurate information on this subject, I interviewed Steve Bell, Dispatch Supervisor for Sonoma Co. Central Dispatch and Linda Jeffries, Dispatch Supervisor for Sonoma/Napa CHP Dispatch. Both were aware of the existence of Amateur Radio and our radiotelephone capability, but neither was familiar with the term "autopatch".

In an autopatch, the dispatcher is a "third party". All third-party traffic requires a control operator. As the control op, you may transmit at any time; you may also end the contact at any time by entering the OFF code. It is your responsibility to maintain ongoing communication with the dispatcher. To keep the flow of conversation going, you must un-key the mic often. If you hesitate to think, un-key the mic and allow the dispatcher to ask you questions.

The dispatcher who answers your call is trained to get certain information. This varies a little depending on the incident, but the type of incident, the location, and injuries are the minimum information we should be prepared to give on contact. The Type of Incident is easy: vehicle accident, fire, medical aid, robbery, etc. The exact Location is extremely important. If you are not sure where you are, give the general location and nearby landmarks, including highway markers. It's not our responsibility to stop and get involved, our best asset is our radio. However, if you can do so safely, try to determine if anyone is injured; they will love you for it. Do not get involved in any kind of police action like chasing people around, get the best description you can and pass it along.

There are four types of dispatch centers available on the emergency autodialer: 1) 911, located at the EOC, dispatches all county fire districts, all ground and air ambulances, and the sheriff. 2) CHP Dispatch in Rohnert Park dispatches all Highway Patrol in Sonoma and Napa Counties. 3) CDF Dispatch on College Ave. 4) All incorporated cities. In most cases you will call only two of these dispatch centers: CHP and 911. You should only call specific city dispatchers when you are sure the incident you are reporting is within that city's limits. CDF should be called only when you are sure you are reporting a fire in a State Responsibility Area (SRA). 99.9% of fires should be reported to 911.

Due to the unusual nature of communicating on a radiotelephone, both dispatchers suggest the following opening line be used unless you are extremely proficient at autopatching: "I am an Amateur Radio Operator calling from a mobile radio. I cannot hear you while I am transmitting," (un-key). This lets the dispatcher know they are not talking to a person on the phone and helps them understand the radiotelephone connection.

When should you call? Most emergencies are obvious, but what about a stalled car on the shoulder of the road? This is the lowest priority on the CHP list -- they may go and take a look after they finish writing the last accident report. If there is no hazard to the flow of traffic and you want to do public service, perhaps that could best be performed by safely stopping and calling a" (next page)

BE PREPARED TO ANSWER THE FOLLOWING (UN-KEY AFTER EACH)

TYPE OF INCIDENT
NUMBER OF INJURIES
LOCATION and/or ADDRESS
DIRECTION OF TRAVEL
DESCRIPTION OF PEOPLE AND VEHICLES
NUMBER OF LANES BLOCKED
YOUR NAME WHEN ASKED
YOUR HOME PHONE WHEN ASKED

- 1) This is actually the ARRL's wording. The relevant FCC regs are paragraphs **97.403** and **97.405** [Ed. note]

tow truck. This will make lots of points for Amateur Radio; calling the CHP will not. The key word is HAZARD. If traffic is dodging, slowing or gawking, or a vehicle is standing in the roadway, it is probably a hazard worth calling in.

About 50% of the time, traffic is relayed by a home station. When this happens, the home station becomes an intermediate dispatcher and should get all the facts before making the phone call. The phone number you should call for CHP (and the number dialed by the repeater) is 576-2073. Central dispatch is at 527-2121. Post these numbers by your home phone so you can be of assistance if needed. Don't answer the call if you can't help. Recently a station was heard giving a two-minute monologue on why he was unable to call the CHP for a mobile station -- it only takes a second to die. Use your beanie: If you can help, do so. If you can't, keep your hands in your pockets.

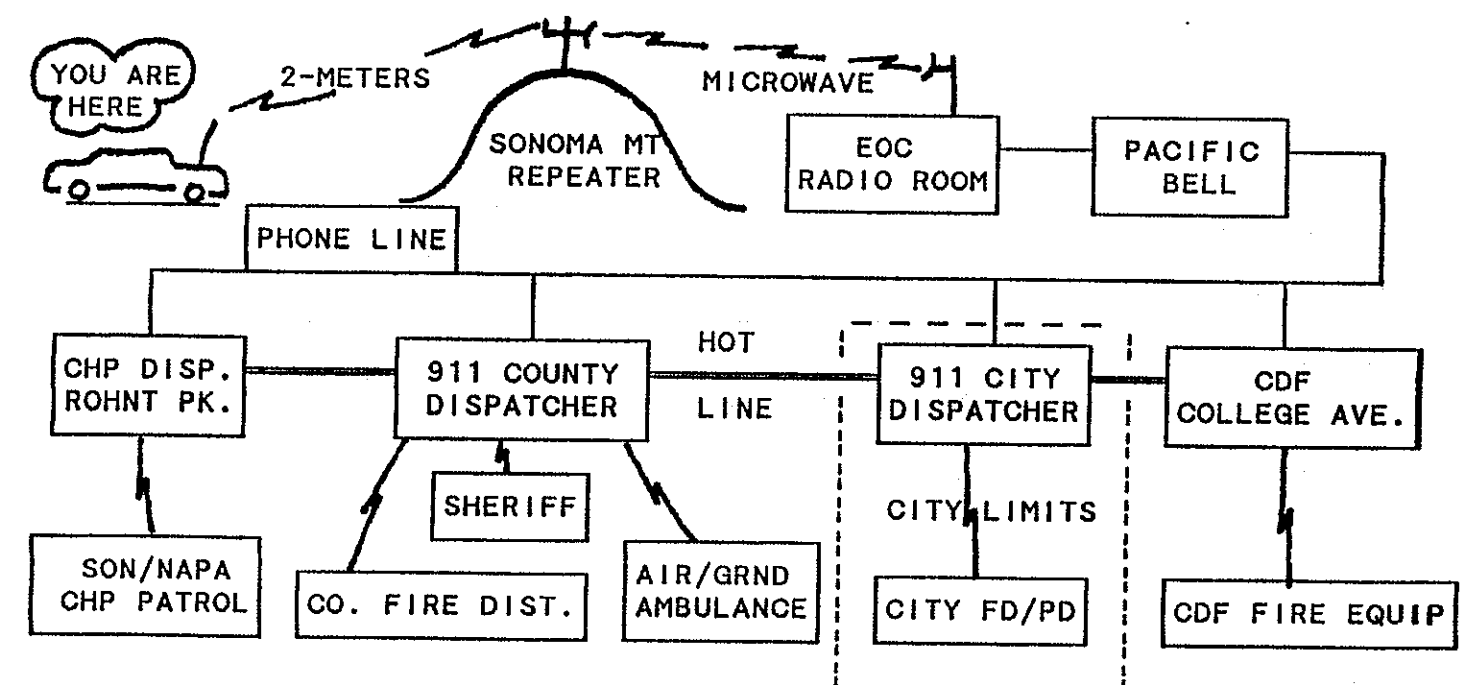
There is a third possibility: bringing the autopatch up for another station. This is an individual call. If the reporting party is stopped at the scene of an injury accident or other ongoing emergency incident, he/she may be able to add important commentary that would help responding agencies. In most cases, we report accidents after we have passed the scene, and direct contact is not as important. If you are home relay station, get the facts straight. Personally, I almost never bring up the patch for another station. Why? Because I become the control operator of a situation over which I have little control. However, if you feel this is the proper action to take, do it.

The phone bill and microwave system for the autopatch are provided by the Sonoma County Communications Department.

Our thanks and hats off to them for recognizing the Amateur Radio potential in emergency communications.

EMERGENCY AUTOPATCHING

RADIO, MICROWAVE, TELEPHONE PATHS



If you live in a city and dial 911 from home you will get your city dispatch. If you dial 911 to report an incident outside city limits ask the dispatcher to transfer you to the appropriate agency, ie: CHP or Central dispatch.